SEQUENCE LISTING

<110> Leder, Philip
      Leader, Benjamin

<120> FORMIN-2 NUCLEIC ACIDS AND POLYPEPTIDES
  AND USES THEREOF

<130> 00383/052002

<140> US 09/835,232
<141> 2001-04-12

<150> US 60/196,811
<151> 2000-04-13

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 280
<212> PRT
<213> Mus musculus

<400> 1

```
Ala Pro Pro Leu Pro Cys Thr Glu Ser Ser Ser Phe Met Pro Gly Leu
 1               5                  10                  15
Gly Met Ala Ile Pro Pro Pro Pro Cys Leu Ser Asp Ile Thr Val Pro
            20              25                  30
Ala Leu Pro Ser Pro Thr Ala Pro Ala Leu Gln Phe Ser Asn Leu Gln
        35              40                  45
Gly Pro Glu Met Leu Pro Ala Pro Pro Gln Pro Pro Pro Leu Pro Gly
    50              55                  60
Leu Gly Val Pro Pro Pro Pro Pro Ala Pro Pro Leu Pro Gly Met Gly
65                  70                  75                  80
Ile Pro Pro Pro Pro Pro Leu Pro Gly Met Gly Ile Pro Pro Pro Pro
                85                  90                  95
Pro Leu Pro Gly Met Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Val
            100                 105                 110
Gly Ile Pro Pro Pro Pro Leu Pro Gly Val Gly Ile Pro Pro Pro
            115                 120                 125
Pro Pro Leu Pro Gly Val Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly
    130                 135                 140
Val Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Val Gly Ile Pro Pro
145                 150                 155                 160
Pro Pro Pro Leu Pro Gly Val Gly Ile Pro Pro Pro Pro Pro Leu Pro
                165                 170                 175
Gly Val Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Met Gly Ile Pro
            180                 185                 190
Pro Pro Pro Pro Leu Pro Gly Ser Gly Ile Pro Pro Pro Pro Ala Leu
        195                 200                 205
Pro Gly Val Ala Ile Pro Pro Pro Pro Pro Leu Pro Gly Met Gly Val
    210                 215                 220
Pro Pro Pro Ala Pro Pro Pro Pro Gly Ala Gly Ile Pro Pro Pro Pro
225                 230                 235                 240
Leu Leu Pro Gly Ser Gly Pro Pro His Ser Ser Gln Val Gly Ser Ser
                245                 250                 255
```

-1-

```
Thr Leu Pro Ala Ala Pro Gln Gly Cys Gly Phe Leu Phe Pro Pro Leu
        260                     265                 270
Pro Thr Gly Leu Phe Gly Leu Gly
        275             280


<210> 2
<211> 1567
<212> PRT
<213> Mus musculus

<400> 2
Met Gly Asn Gln Asp Gly Lys Leu Lys Arg Ser Ala Gly Asp Ala Ser
1               5                   10                  15
His Glu Gly Gly Gly Ala Glu Asp Ala Ala Gly Pro Arg Asp Ala Glu
        20                  25                  30
Thr Thr Lys Lys Ala Ser Gly Ser Lys Lys Ala Leu Gly Lys His Gly
        35                  40                  45
Lys Gly Gly Gly Gly Ser Gly Glu Thr Ser Lys Lys Lys Ser Lys Ser
    50                  55                  60
Asp Ser Arg Ala Ser Val Phe Ser Asn Leu Arg Ile Arg Lys Asn Leu
65                  70                  75                  80
Thr Lys Gly Lys Gly Ala Cys Asp Ser Arg Glu Asp Val Leu Asp Ser
                85                  90                  95
Gln Ala Leu Pro Ile Gly Glu Leu Asp Ser Ala His Ser Ile Val Thr
            100                 105                 110
Lys Thr Pro Asp Leu Ser Leu Ser Ala Glu Glu Thr Gly Leu Ser Asp
        115                 120                 125
Thr Glu Cys Ala Asp Pro Phe Glu Val Ile His Pro Gly Ala Ser Arg
    130                 135                 140
Pro Ala Glu Ala Gly Val Gly Ile Gln Ala Thr Ala Glu Asp Leu Glu
145                 150                 155                 160
Thr Ala Ala Gly Ala Gln Asp Gly Gln Arg Thr Ser Ser Gly Ser Asp
                165                 170                 175
Thr Asp Ile Tyr Ser Phe His Ser Ala Thr Glu Gln Glu Asp Leu Leu
            180                 185                 190
Ser Asp Ile Gln Gln Ala Ile Arg Leu Gln Gln Gln Gln Gln Gln Lys
        195                 200                 205
Leu Leu Leu Gln Asp Ser Glu Glu Pro Ala Ala Pro Pro Thr Ala Ile
        210                 215                 220
Ser Pro Gln Pro Gly Ala Phe Leu Gly Leu Asp Gln Phe Leu Leu Gly
225                 230                 235                 240
Pro Arg Ser Glu Ala Glu Lys Asp Thr Val Gln Ala Leu Pro Val Arg
                245                 250                 255
Pro Asp Leu Pro Glu Thr Thr Lys Ser Leu Val Pro Glu His Pro Pro
            260                 265                 270
Ser Ser Gly Ser His Leu Thr Ser Glu Thr Pro Gly Tyr Ala Thr Ala
        275                 280                 285
Pro Ser Ala Val Thr Asp Ser Leu Ser Ser Pro Ala Phe Thr Phe Pro
        290                 295                 300
Glu Ala Gly Pro Gly Glu Gly Ala Ala Gly Val Pro Val Ala Gly Thr
305                 310                 315                 320
Gly Asp Thr Asp Glu Glu Cys Glu Glu Asp Ala Phe Glu Asp Ala Pro
                325                 330                 335
Arg Gly Ser Pro Gly Glu Glu Trp Val Pro Glu Met Glu Glu Ala Ser
            340                 345                 350
Gln Arg Leu Glu Lys Glu Pro Glu Glu Gly Met Arg Glu Ser Ile Thr
        355                 360                 365
Ser Ala Val Ala Ser Leu Pro Gly Ser Pro Ala Pro Ser Pro Arg Cys
```

-2-

```
        370                  375                  380
Phe Lys Pro Tyr Pro Leu Ile Thr Pro Cys Tyr Ile Lys Thr Thr Thr
385                 390                 395                 400
Arg Gln Leu Ser Ser Pro Asn His Ser Pro Ser Gln Ser Pro Asn Gln
                405                 410                 415
Ser Pro Arg Ile Lys Lys Arg Pro Asp Pro Ser Val Ser Pro Ser Pro
            420                 425                 430
Arg Thr Ala Leu Ala Ser Ala Ala Ala Pro Ala Lys Lys His Arg Leu
        435                 440                 445
Glu Gly Gly Leu Thr Gly Gly Leu Ser Arg Ser Ala Asp Trp Thr Glu
        450                 455                 460
Glu Leu Gly Val Arg Thr Pro Gly Ala Gly Gly Ser Val His Leu Leu
465                 470                 475                 480
Gly Arg Gly Ala Thr Ala Asp Asp Ser Gly Gly Gly Ser Pro Val Leu
            485                 490                 495
Ala Ala Lys Ala Pro Gly Ala Pro Ala Thr Ala Asp Gly Phe Gln Asn
            500                 505                 510
Val Phe Thr Gly Arg Thr Leu Leu Glu Lys Leu Phe Ser Gln Gln Glu
        515                 520                 525
Asn Gly Pro Pro Glu Glu Ala Glu Lys Phe Cys Ser Arg Ile Ile Ala
        530                 535                 540
Met Gly Leu Leu Leu Pro Phe Ser Asp Cys Phe Arg Glu Pro Cys Asn
545                 550                 555                 560
Gln Asn Ala Gly Ser Ser Ser Ala Pro Phe Asp Gln Asp Gln Leu Tyr
                565                 570                 575
Thr Trp Ala Ala Val Ser Gln Pro Thr His Ser Met Asp Tyr Ser Glu
            580                 585                 590
Gly Gln Phe Pro Arg Arg Glu Pro Ser Met Trp Pro Ser Ser Lys Leu
        595                 600                 605
Pro Glu Glu Glu Pro Ser Pro Lys Asp Val Asp Thr Glu Pro Lys Ser
        610                 615                 620
Ser Ile Leu Glu Ser Pro Lys Lys Cys Ser Asn Gly Val Gln Gln Glu
625                 630                 635                 640
Val Phe Asp Val Lys Ser Glu Gly Gln Ala Thr Val Ile Gln Gln Leu
                645                 650                 655
Glu Gln Thr Ile Glu Asp Leu Arg Thr Lys Ile Ala Glu Leu Glu Lys
            660                 665                 670
Gln Tyr Pro Ala Leu Asp Leu Glu Gly Pro Arg Gly Leu Ser Gly Leu
            675                 680                 685
Glu Asn Gly Leu Thr Ala Ser Ala Asp Val Ser Leu Asp Ala Leu Val
        690                 695                 700
Leu His Gly Lys Val Ala Gln Pro Pro Arg Thr Leu Glu Ala Lys Ser
705                 710                 715                 720
Ile Gln Thr Ser Pro Thr Glu Glu Gly Arg Ile Leu Thr Leu Pro Pro
                725                 730                 735
Pro Lys Ala Pro Pro Glu Gly Leu Pro Gly Ser Pro Ala Ala Ala Ser
            740                 745                 750
Gly Glu Ser Ala Leu Leu Thr Ser Pro Ser Gly Pro Gln Thr Lys Phe
            755                 760                 765
Cys Ser Glu Ile Ser Leu Ile Val Ser Pro Arg Arg Ile Ser Val Gln
        770                 775                 780
Leu Asp Ala Gln Gln Ile Gln Ser Ala Ser Gln Leu Pro Pro Pro Pro
785                 790                 795                 800
Pro Leu Leu Gly Ser Asp Ser Gln Gly Gln Pro Ser Gln Pro Ser Leu
                805                 810                 815
His Thr Glu Ser Glu Thr Ser His Glu His Ser Val Ser Ser Ser Phe
            820                 825                 830
Gly Asn Asn Cys Asn Val Pro Pro Ala Pro Pro Leu Pro Cys Thr Glu
            835                 840                 845
```

```
Ser Ser Ser Phe Met Pro Gly Leu Gly Met Ala Ile Pro Pro Pro Pro
850             855             860
Cys Leu Ser Asp Ile Thr Val Pro Ala Leu Pro Ser Pro Thr Ala Pro
865             870             875             880
Ala Leu Gln Phe Ser Asn Leu Gln Gly Pro Glu Met Leu Pro Ala Pro
            885             890             895
Pro Gln Pro Pro Pro Leu Pro Gly Leu Gly Val Pro Pro Pro Pro Pro
            900             905             910
Ala Pro Pro Leu Pro Gly Met Gly Ile Pro Pro Pro Pro Pro Leu Pro
            915             920             925
Gly Met Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Met Gly Ile Pro
            930             935             940
Pro Pro Pro Pro Leu Pro Gly Val Gly Ile Pro Pro Pro Pro Pro Leu
945             950             955             960
Pro Gly Val Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Val Gly Ile
            965             970             975
Pro Pro Pro Pro Pro Leu Pro Gly Val Gly Ile Pro Pro Pro Pro Pro
            980             985             990
Leu Pro Gly Val Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Val Gly
            995             1000            1005
Ile Pro Pro Pro Pro Pro Leu Pro Gly Val Gly Ile Pro Pro Pro Pro
            1010            1015            1020
Pro Leu Pro Gly Met Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Ser
1025            1030            1035            1040
Gly Ile Pro Pro Pro Pro Ala Leu Pro Gly Val Ala Ile Pro Pro Pro
            1045            1050            1055
Pro Pro Leu Pro Gly Met Gly Val Pro Pro Pro Ala Pro Pro Pro Pro
            1060            1065            1070
Gly Ala Gly Ile Pro Pro Pro Pro Leu Leu Pro Gly Ser Gly Pro Pro
            1075            1080            1085
His Ser Ser Gln Val Gly Ser Ser Thr Leu Pro Ala Ala Pro Gln Gly
            1090            1095            1100
Cys Gly Phe Leu Phe Pro Pro Leu Pro Thr Gly Leu Phe Gly Leu Gly
1105            1110            1115            1120
Met Asn Gln Asp Arg Val Ala Arg Lys Gln Pro Ile Glu Pro Cys Arg
            1125            1130            1135
Pro Met Lys Pro Leu Tyr Trp Thr Arg Ile Gln Leu His Ser Lys Arg
            1140            1145            1150
Asp Ser Ser Pro Ser Leu Ile Trp Glu Lys Ile Glu Glu Pro Ser Ile
            1155            1160            1165
Asp Cys His Glu Phe Glu Glu Leu Phe Ser Lys Thr Ala Val Lys Glu
            1170            1175            1180
Arg Lys Lys Pro Ile Ser Asp Thr Ile Ser Lys Thr Lys Ala Lys Gln
1185            1190            1195            1200
Val Val Lys Leu Leu Ser Asn Lys Arg Ser Gln Ala Val Gly Ile Leu
            1205            1210            1215
Met Ser Ser Leu His Leu Asp Met Lys Asp Ile Gln His Ala Val Val
            1220            1225            1230
Asn Leu Asp Asn Ser Val Val Asp Leu Glu Thr Leu Gln Ala Leu Tyr
            1235            1240            1245
Glu Asn Arg Ala Gln Ser Asp Glu Leu Glu Lys Ile Glu Lys His Ser
1250            1255            1260
Arg Ser Ser Lys Asp Lys Glu Asn Ala Lys Ser Leu Asp Lys Pro Glu
1265            1270            1275            1280
Gln Phe Leu Tyr Glu Leu Ser Leu Ile Pro Asn Phe Ser Glu Arg Val
            1285            1290            1295
Phe Cys Ile Leu Phe Gln Ser Thr Phe Ser Glu Ser Ile Cys Ser Ile
            1300            1305            1310
Arg Arg Lys Leu Glu Leu Leu Gln Lys Leu Cys Glu Thr Leu Lys Asn
```

-4-

```
                1315                     1320                     1325
Gly Pro Gly Val Met Gln Val Leu Gly Leu Val Leu Ala Phe Gly Asn
        1330                     1335                     1340
Tyr Met Asn Ala Gly Asn Lys Thr Arg Gly Gln Ala Asp Gly Phe Gly
1345                     1350                     1355                     1360
Leu Asp Ile Leu Pro Lys Leu Lys Asp Val Lys Ser Ser Asp Asn Ser
                1365                     1370                     1375
Arg Ser Leu Leu Ser Tyr Ile Val Ser Tyr Tyr Leu Arg Asn Phe Asp
            1380                     1385                     1390
Glu Asp Ala Gly Lys Glu Gln Cys Val Phe Pro Leu Ala Glu Pro Gln
            1395                     1400                     1405
Glu Leu Phe Gln Ala Ser Gln Met Lys Phe Glu Asp Phe Gln Lys Asp
        1410                     1415                     1420
Leu Arg Lys Leu Lys Lys Asp Leu Lys Ala Cys Glu Ala Glu Ala Gly
1425                     1430                     1435                     1440
Lys Val Tyr Gln Val Ser Ser Ala Glu His Met Gln Pro Phe Lys Glu
                1445                     1450                     1455
Asn Met Glu Gln Phe Ile Ser Gln Ala Lys Ile Asp Gln Glu Ser Gln
                1460                     1465                     1470
Glu Ala Ala Leu Thr Glu Thr His Lys Cys Phe Leu Glu Thr Thr Ala
            1475                     1480                     1485
Tyr Tyr Phe Met Lys Pro Lys Leu Gly Glu Lys Glu Val Ser Pro Asn
            1490                     1495                     1500
Val Phe Phe Ser Val Trp His Glu Phe Ser Ser Asp Phe Lys Asp Ala
1505                     1510                     1515                     1520
Trp Lys Lys Glu Asn Lys Leu Ile Leu Gln Glu Arg Val Lys Glu Ala
                1525                     1530                     1535
Glu Glu Val Cys Arg Gln Lys Lys Gly Lys Ser Leu Tyr Lys Val Lys
            1540                     1545                     1550
Pro Arg His Asp Ser Gly Ile Lys Ala Lys Ile Ser Met Lys Thr
            1555                     1560                     1565


<210> 3
<211> 5762
<212> DNA
<213> Mus musculus

<400> 3
gcccttttct ggaaagaggg acggcagccg ggagagccac cgcgcattat gcaaagcggc  60
agcagatgtg agcggggcca gctgggcgct ccttggcctc cgctcccaac ggccggccca  120
gctgcctgaa ttgtcccgga cactcccctg gccctctcca gggccgagat ggcctgagga  180
ccccaaggcg cggcggcgca gcagtggggt tgaaacatgg ggaaccagga tgggaagctg  240
aagagaagcg caggtgatgc ctcccacgaa ggcggcggag ccgaggatgc cgcgggggccc  300
agggatgcgg aaaccacaaa gaaggcgagc gggagcaaaa aggcgcttgg caagcacggc  360
aaggggggag ggggcagcgg ggagaccagc aagaagaaga gcaagtccga ttctagagcc  420
tcggtgtttt ccaacctgcg gatcagaaag aacctgacca aggggaaagg tgcctgcgac  480
tcgcgggagg atgtgctgga ctcacaggcc ctgccgattg gggagctgga cagcgctcac  540
tctatagtca ccaagacccc ggacctcagc ctctccgctg aggagacagg cctatcggat  600
accgagtgtg ctgacccttt cgaggtgatc catcccggtg cttctaggcc tgctgaggct  660
ggggtaggga tccaggcgac cgcggaggat ttggaaactg cggctggagc gcaagatgga  720
caaaggacca gttctggttc agacacggac atctacagct tccactccgc tacggagcag  780
gaggatttgc tctcagacat ccagcaggca attcgtctgc aacagcagca gcagcagaag  840
ctgctgctcc aggactccga ggagcctgca gcgcccccca ctgccatctc ccctcagcct  900
ggggcctttc tgggcctgga ccaattcttg ctgggaccta gaagcgaggc tgaaaaggac  960
acagtacagg cactaccggt gagacctgac ttgcctgaga ccaccaagtc tctggtgcct  1020
gagcatcctc cgtcctcagg aagccacttg acctccgaga caccaggtta tgcgaccgcc  1080
ccctccgcag tcacagactc tctctcatca ccagccttca cctttccgga ggctgggcca  1140
ggggagggag ccgccggagt tcccgtggct ggaactgggg acacagatga ggagtgcgag  1200
```

```
gaggatgctt ttgaggatgc cccccgcggc tctccagggg aggaatgggt cccagagatg 1260
gaagaagcct cacagaggct ggagaaagag ccggaggagg gcatgcgaga atccattacc 1320
tccgcagtcg cttctttgcc tggaagccct gcgcccagcc cacgctgctt caaaccttac 1380
ccactcatca cccctgcta catcaagacc accactcggc agctcagctc tcctaatcac 1440
tccccgtccc agtccccaa ccagagtcct aggatcaaaa agcggccgga cccttccgtg 1500
agcccgagcc ccagaaccgc cttggcctct gctgcagcca cggcaaaaaa gcaccggttg 1560
gagggtggcc tcacgggcgg cctcagccgc tcagccgact ggaccgagga gctgggcgtc 1620
cgtacgccag gggcaggagg ctccgtgcac ctgctggggc gcggggctac tgcggatgac 1680
agtggtggtg ggtcccctgt actggccgcc aaggcacctg gggctccagc gacagctgac 1740
ggctttcaga acgtgttcac agggagaaca ctgctggaga agctgtttag ccagcaggag 1800
aacgggcctc cagaggaagc agaaaaattt tgctcccgga tcatcgccat gggtcttcta 1860
cttcctttca gtgactgctt cagggaaccg tgtaatcaga acgctgggtc cagttcagct 1920
ccatttgatc aagatcagct ttacacctgg gctgcggtta gtcaacccac gcattcgatg 1980
gattacagcg aagggcagtt tcccaggaga gaaccatcca tgtggccatc atccaagctt 2040
cctgaggaag agcccagccc caaggacgtt gatacagaac ctaaatcctc tattttggaa 2100
agcccgaaaa aatgctcaaa tggtgtccag caggaagttt tcgatgtgaa gtctgaagga 2160
caggcaactg taattcagca actggaacag accatcgagg atctacgcac aaaaatagct 2220
gagctagaga agcaatatcc agccctggac ttggagggac ccagaggcct ctcaggactt 2280
gagaatggat tgacagcctc tgcagacgtc agtctagatg ctcttgtatt gcatgggaag 2340
gttgcacagc ctccaaggac tcttgaggca aaatcaatac agacttcccc aacagaagaa 2400
ggtagaatcc tgacattgcc acctccaaag gcaccaccag agggtcttcc ggggtccccct 2460
gcagctgcaa gtggagagtc agcccttcta acctcaccct ctggacctca gacaaaattc 2520
tgttcagaga tttctctgat tgtgtctcca aggagaatat cagtacagct ggatgcccaa 2580
cagatacaga gtgcatcaca actaccacca cctcctcctc tccttgggtc tgatagtcag 2640
ggacagccct cccaaccttc tctgcatact gagtcagaaa ccagccatga acattctgtt 2700
tcctcctcct ttggaaacaa ctgtaatgtc ccacccgcac cacctctgcc ttgtacagag 2760
tcctccagtt tcatgcctgg cctgggcatg gcaattcccc cacctccctg tctctctgac 2820
ataacagtgc ctgctctgcc cagtcctaca gccccagccc tacaatttag caatctacag 2880
ggaccagaaa tgctgccagc ccctccccaa cctcctcctc ttcctgggct aggagtaccc 2940
cctcctcccc ctgcccctcc tctccctgga atgggaatac ctcccccacc tcctctccct 3000
ggaatgggaa tacctccccc acctcctctc cctggaatgg gaatacctcc tcccctcct 3060
ctacctggag tgggcatacc ccctcctcct cctcttcctg gagtgggcat accccctcct 3120
cctcctcttc ctggagtggg aatacccct cctcctcctc ttcctggagt gggaatacct 3180
cctcccctc ctttacctgg agtgggaata cccctcctc ctcctcttcc tggagtgggc 3240
atacccctc ctcctcctct tcctggagtg ggaataccc cacccctcc acttccagga 3300
atgggaatac cccctccccc tcctttacct ggatcaggca tacccctcc tcctgctcta 3360
cctggagttg ctattcctcc accacctcct ctaccaggta tggggggtcc acctcccgcc 3420
ccacctcccc ctggggcagg catcccccca cccccactgt tgcctggctc aggtcctcca 3480
cactcctccc aagttgggag tagcactta ccagcagcac ctcaaggtg tggatttctt 3540
ttccctccat tgcccactgg cttgttGGA ttagggatga atcaggacag agtggctagg 3600
aagcagccga tcgagccttg ccggccaatg aagcctctct attggacaag aattcaactc 3660
catagtaaaa gagactccag cccttcgctt atttgggaaa agattgaaga gccatccata 3720
gactgtcatg aatttgaaga attattttct aaaactgcag taaaggagag aaagaaacct 3780
atttctgaca caatttcaaa gacaaaggcc aaacaagttg tcaagttgct tagcaacaaa 3840
aggtcacaag cagtaggaat tctaatgtct agtctgcatt tagatatgaa agacatacaa 3900
catgctgttg tgaacttgga caactctgtg gtggacctgg agacccttca agctctctat 3960
gagaataggg cacagtcaga tgaactggaa aaaattgaaa agcacagtcg gtcttccaaa 4020
gacaaggaaa acgctaagtc tctcgacaaa cctgaacagt tcctgtatga gctgtcgcta 4080
atccccaact tctccgagcg ggtcttctgt atcctgtttc agtccacatt ttcagagagc 4140
atttgctcaa ttcgtcgcaa gttggaattg ctacaaaaac tgtgtgagac cttaaaaaat 4200
ggaccagggg tcatgcaggt cctgggttta gttctagcct ttgggaacta catgaatgct 4260
gggaacaaga cccgaggaca ggcagatggc tttggactag acattttgcc caagctgaag 4320
gatgtcaaaa gcagcgacaa cagcagaagc cttttgtcat atattgtttc atattatctt 4380
cgaaattttg atgaggatgc tggcaaagag cagtgtgtct cccactggc agaaccccag 4440
gagcttttcc aggcctcaca gatgaagttt gaagacttcc agaaagacct cagaaaacta 4500
aagaaagcct tgaaagcctg tgaggcggaa gccggtaaag tgtaccaggt gtcctctgcg 4560
gagcatatgc agcctttcaa ggaaaacatg gagcagttta tcagtcaagc taaaattgac 4620
caagagtcac aggaggctgc cctgacagag actcataaat gcttttggga gaccacagcc 4680
tactacttca tgaaaccaaa actcggcgag aaggaggtgt ccccaaatgt tttcttcagt 4740
```

                    -6-

```
gtctggcatg aattcagctc tgactttaaa gacgcttgga aaaaagagaa caaactgatt 4800
ctgcaagaga gagtcaaaga agccgaggag gtgtgtaggc agaagaaagg aaaatcactc 4860
tataaagtaa aaccgagaca tgactctggg attaaagcga agataagcat gaaaacgtga 4920
tctgtgacca gaacagcaga agaaaacaag acattgaaac aacttgcgca gcatccacct 4980
gacatgaagg agggaaggaa gctccatcct cctagacctt ttcctctgaa cctcttgcat 5040
aatcttcatg ttttctaggc agtttgttga ttgttgaaat ttattgtatg tgcctttaaa 5100
atggcaaaag cagtagacct gtggagattg gacacctttc cttttttgtaa acattgtggt 5160
gttataccaa cagacccaag tggcacgtct aagaggcact atctgcataa attctgaaca 5220
tgatgagccc tagcctatgg tttctctctt gttgcaacaa aaatattttc cttttttactg 5280
acaaccagaa ctccacatcg atgtggttag acttgtgggt aaacttcgtt cctagtgaat 5340
tctttgtatc tacttgactt ctgcttatac agtgtctatt tgagaagtaa ataccatcaa 5400
tatgtcatga ttcatacctc tcccatgctt aagttgctct ctatgatatt tcccttgaag 5460
ccctatgaaa aactggtctg cagcagaggt aaaagaaatc atgggatgtt tctctatgtc 5520
taacgctgca ataaccaccc ccctctctct ctcacacaca cacatacaca tacacacaat 5580
tctctctctt acatacacac acacacatag tttctcactc atggaccgat acacatacac 5640
atacattctt tctcacacac atacacaagc ttcacttaat attttcaaga aatttgagta 5700
agtaaagttc atgacaaatt tattttttga caaccactta ttgtaaaaaa aaaaaaaaaa 5760
aa                                                                5762


<210> 4
<211> 1005
<212> DNA
<213> Homo sapiens

<400> 4
tccctgcccg gcagccccgc gcctagccag cgctgtttca agccctaccc gctcatcacc 60
ccctgctaca tcaagaccac cacccggcag ctcagctcgc ccaatcactc cccgtctcag 120
tcccctaatc agagccccag gatcaagagg cggccggaac cctccctgag ccgagggtcc 180
agaactgccc tggcctccgt agccgccccg gccaagaagc accgggcaga cggcggcctt 240
gcggccggcc tgagccgctc ggctgactgg acggaggagc taggcgcccg cacgccccgg 300
gtgggaggct ccgcgcacct gctggagcgc ggggtggcga gtgacagcgg cggtggggtg 360
tccccagcac tggccgccaa ggcgtctggg gcccccgcgg ctgcggatgg cttccagaac 420
gtgttcacag gcgaacgct gttggagaag ctgttcagcc agcaggagaa cgggcctcca 480
gaagaagcag agaagttttg ctccccggatc attgccatgg gtcttctcct tccttttagt 540
gattgcttca gggaaccgtg taatcagaat gcccagacga atgcagcttc gtttgatcaa 600
gatcaacttt atacctgggc tgcagttagt caacccacac actcattgga ctattcagaa 660
gggcagtttc ctaggcgagt tccatccatg gggccaccat ccaaacctcc cgatgaggaa 720
cacaggctcg aggatgctga aacagaatct caatctgctg tttcagaaac tccccaaaaa 780
cgctcagatg ctgtccagaa ggaagttgtt gacatgaagt ctgagggaca ggccactgta 840
attcagcagc tggaacagac tattgaggat ctgagaacca aaatagctga actagagagg 900
cagtatcctg ccctggacac agaggtggcc agtggtcatc aagggcttga gaatggagtg 960
acagcctcag gcgatgtctg tctcgaagct ctcaggcctc gtgcc 1005

<210> 5
<211> 1952
<212> DNA
<213> Homo sapiens

<400> 5
acgagggcca agtctctgga caaacctgaa cagttccttt atgaactgtc actaatcccc 60
aacttttcag agcgagtctt ttgcatcctg ttccagtcca cattttcaga aagcatttgc 120
tcaattcgtc gcaaactgga attactacag aaattgtgtg agacattaaa aaatgggcca 180
ggggttatgc aggttctagg tttggttctt gcctttggca actacatgaa tggaggaaat 240
aagactcgag gacaggcaga tggctttgga ttagacattc ttccaaaact gaaagatgtc 300
aagagcagtg acaatagcag aagcctttttg tcatatattg tttcgtatta tctccgaaat 360
tttgatgagg atgctggaaa agaacagtgc ctctttccac tgccagaacc ccaggacctt 420
tttcaggcct cacagatgaa gtttgaagat ttttcaaaaag atctcagaaa actgaagaaa 480
```

-7-

```
gacttgaaag cctgtgaagt tgaagcaggg aaagtatacc aggtctcctc aaaagagcat 540
atgcagcctt tcaaggaaaa catggaacaa tttattattc aagccaaaat tgaccaagag 600
gcagaggaaa attcactgac agagactcat aaatgctttt tggagaccac ggcatatttc 660
ttcatgaaac caaaacttgg agagaaggag gtgtccccaa atgctttctt cagtatctgg 720
catgaattca gctctgactt taaagacttc tggaagaaag agaacaaact tcttctacaa 780
gagagagtaa aagaagccga agaggtgtgt agacagaaga aaggaaaatc actttataaa 840
ataaaaccaa gacatgactc tggaattaaa gcaaagataa gcatgaaaac ttgaacaatg 900
aaaagcagaa tgaaaatgag tcattgcaac gactttcaca aaattcagct gacctgagag 960
tgggagggaa actaccgtca ttctgctcat gtttcttctt gacctcttgc ataatctttt 1020
tgttttctag acagttcact aattgttgaa ttttactgta tattcatata aaaatgcaaa 1080
cgtactagac cagtggagaa tttgacacct tttctttttg taaaagttta tggtattata 1140
ccgatagacc aaaacagcat gtgtaagagg cagtatctgc actaattctc aacatgctaa 1200
acattaacta caattcactg ttgtgagaat attcctcgtc acagcaaaaa cactttcctt 1260
tctactgaca accagtcctc cacatcacag catttagaca tatgggtaaa atgttatttc 1320
tagtgaattg tttgtatcag tttcatgtct aagtataaat tttctatttt aaaatttaag 1380
aaccgtttat aatcagtgct ttcccaactc ttgggttgct ctccataact atgtatttgt 1440
gaaagaaaat ggtcattttt tttactgaag tcatataatg acttgggtca gctcgtaatg 1500
cattgtgatg gttttgtatg agctgggtgt tttttttccat tactttttaat gatcttcgtt 1560
gcaagttata gttgtggata aaggggagaa tttattgctc ttgcaaacca attatggaaa 1620
gcaacttaag aaaaccaatg ttctaaatca taattgtttg tatttatgta aagtatggtc 1680
tcttactttt tagtttgtag tttaagtgca aagaaacagt agtggtttttc tttctattgt 1740
tttgtagtct tcctgtcccc ttcagtccct ccagtgtgta tattaccatt ctccaatgaa 1800
ataatagggc atttaacaaa gatcgctatg tgcaatactg tatttagtgt ttctatttca 1860
attttttctag gatgttaatt tatatgaaaa taaaatgaat aataaaagaa taaagataaa 1920
aaaaaaaaaa aaaaattcct gcggccgcaa gg                              1952

<210> 6
<211> 180216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(180216)
<223> n = A,T,C or G

<400> 6
ccgaggcggg cagatcacaa ggtcaggcca atacggagaa accccgtctc tactaaaaat 60
acaaaaatga gccggcctgg tggtgggcac ctgcagaccc agctcctcgg gaggccgacg 120
caggagaatc gctctgaacc cgggaggcgg agcttgcagt gagccgagat cgcgccactg 180
cactccagcc tgggcgacag agcaagtctc aaaaaaaaaa aaaaaaaaaa aaaggttaa 240
atattccatt ttaaaaagtt acctcaaaat tccgagcata atctaaaatt ctggactccc 300
tatggactcc aaatgtttca ggactgacct ctttaccatc acaaaataag cctttcactc 360
acgaaacaaa acatacttgg atgagctgtg tatttacaga gagaagacag taagacaatg 420
agcgggatat gcctctcagc taagaatgga aaataaacct ccctttaaaa tatacataca 480
aaatatgcct tctaaaaatg aatgaagtag tctctaaaca gacattttaa gttaaaatgc 540
agctatataa aattattata ttatagcttc tttaatggta tataccagtt tgattcaaat 600
ccagtcaatt taactgaaac agaattcatt aaacttcatt taaatagcat gacttatgat 660
tggctgccta ataaatgcaa gatgttttta attctgatat accatgtctt tccacaaatg 720
aagatgaggt taaatacctg aattttccta aatgaggcca attccatgat ctgcttattt 780
gattatttaa tagtactgag gctctgcctc tcattgtcaa caaaatacag ccacacctag 840
gctctagtta gcgcaggaga aaatcaaggc caattttatg aaaactatat gtaggcatgt 900
gtgtgtgtat atatacatgt atgtatacac atacatgcat gcacatacta tgtaatatat 960
aatattcaat atattatcca cctccctaca tcccttacgg gggggggggg nnnnnnnnnn 1020
nngnnnnncn gnnncgnntc gggannaga natattatat tatatattta catgttgaaa 1080
atatgtaatt attttttggga gacacagtca gtctattcca gtacattttta ttccttgatt 1140
aagtgagggg ctcagagaga tagaatacta ccaagtctcc cctggtccct tatagaattt 1200
ctgcattatc tcaaccgaac ttatgttaaa acatttgaac aaaacacaga aatggaccag 1260
gcatggtggc tcatgtctgt aatcccagca ctttgggagg ccaaggtggg aggatcactt 1320
```

```
aagcccagag ttcaacacca gcctgagcta catgacaaaa cctcatatct acaaaaaatt 1380
agtaaaaatg tgactagcat gggnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1440
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1500
nnncgaaaat gatatggtaa tttgagatca catatacaaa aacaaggagc actggtaaac 1560
attttttatc tgcacaaaac atagtataat tacatagttc tctgaagtga tagtttgtgg 1620
ctgcagtgag ctatgatcgt gccactgtac tcctgcctgg gtggtagaat gagaccttgt 1680
ctctaaaaaa gaaaaaagac aaaagtccgt gaacatctca atagctgtag aatccgcagt 1740
taccaaatcg tatacacttt agtgacacac acacacacac acacacacat acacacacac 1800
acacaaatgg gactagaagg gaacttcctc agcctgatag catctgtgaa aaacccaggg 1860
ctcacattga agactggatg tttttcagga aaaagacaag gatgttcatt cttgttactt 1920
ctgtttagca atgtgctaga agttctagtc aaggcaatta ggcaagggaa agaaataaat 1980
ggtctcctga ttggaatgga agcagcaaaa catttgcag atgacatgat cttgtatgta 2040
agaagtccta aggaattcat tagaagaaac tattagacgt aacaaggaat ctaattgtat 2100
ttctagacat tagcaattat cattgtgaaa atgtaattag gaaaacaact ccctttgcag 2160
tattattaaa aagaataaga tactgaagta tggatttaa aaaagaattt tacactgaat 2220
ctagaaagca ttgttgaaag aagttaagga ggatctaaat aaagggaaca tgccatggtt 2280
atggatggga agacttgata ttgttaagat gatgatactt gccaagttgt cctacagatt 2340
caacacagtg tctagcaaca tcccaaccat ttctccaaac tcattttttt ttagcaaaat 2400
agacaagcta atttaaaaat tcacgtgaaa aatgaaggat ctcagaatag ccaaaacaat 2460
ctagcaaaag aacaaagttg gaagcctcct gatttcaaaa gttattacaa aactatagta 2520
attaagacaa tatagtactg gcatactaat acacatattg gtcaatggaa tatatttgag 2580
agtccagaaa tcagttctta catttatggt ctgttgattt ttgacaatgg tactaagaca 2640
tttcaagggt gaaagaatgg tcttttcaac aaatggtgtt gggacaactg tatatccaca 2700
tgcaaaagaa tgagtattagg caatggtttc ttagatctat gactctaaaa gcacatatga 2760
caaaagaaaa aatagattat tctacatcaa agttaacaat tttgaatcta caaacaatac 2820
catcaaaaaa cttaaaaaga caaccaaccc acaaaatggg aggaaatgtt tgcaagtcac 2880
aaatctgata agtggttaac atcctgaata tctaaataac tcctacaact caataacaac 2940
aataatttta aaaaaatcta atttcaaaat gggcaaggcc gagcgcagtg actcacacct 3000
gtaatcccag cactttggga ggccgaggcg ggtggatcac ctgaggtcgg gagtttgaga 3060
ccagcctgac caacatggag aaaccccatc tctactaaaa atacaaaatt agctaggtgt 3120
ggtggcacat gcctataatc ccagctactc gggagtctga agcaggagaa tcgcttgaac 3180
ccaggaggca gaggttgtgg tgagccgaga ctgtgccatt gcactccagc ctgggcaaca 3240
agagtgaaac tctgtctcaa aaaaaaatcc atcgcgtaag cttcgtctcg ggccgnaatc 3300
gaacttaccc aattnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnacaata 3420
gcaaagactt ggaaccaacc caaatgccca tcaatgatag actagataaa aaaaaaatgt 3480
ggcacatata caccatggaa tactatgcag ccataaaaaa ggatgagttc atgtcctttg 3540
cagggacatg gatgaagctg gaaaccatca ttctcagcaa actaccacag gaacagaaaa 3600
ccaagcacca catgttctca cttataagtg ggagctgaac aatgagaaca catggacaca 3660
gagaggggaa catcacacac tggggcctgt ttggggttgg ggggctaggg gagggatagc 3720
attaggagaa atacctaatg taggtgacgg gttgatgcat gcagcaaaac accatggcac 3780
gtgtatacct atgtaacaaa cctgcacgtt ctgcacatgt atcccagaac ttaaagtata 3840
ataaaagaca aaaaaaaaaa aaaacttaaa aaaaagaaca ccctttcttg accccaattt 3900
cccctaccag ctataggtat accaccaggt tcatgcactt tgtctcagca aaaagtctac 3960
acctgtagtc tccaaatcac tgtctttcca ttctctctca agcaaacaa agtctgaccc 4020
ggaattgctg atcttccgct cccaaacctg ctctttctgc agttttccct atctcagtaa 4080
atgcaatgac aacctttcat taacttaggc caataatcct agagtcctat cttttttctca 4140
cagtctacat caccaaaacc tgttgcctcc tccctcgaaa catattagga atctgatatc 4200
tcacacgtct ccactgctcc cactctggtc ctggccgcca gcatctcaca tctgttgctg 4260
tgatagtctc ctcactgctc ttcttgccta cctcccttct tcttgatatt ctgcactcag 4320
cagagcatcc cttggaagac aaatcagacc aatcgttcct ctacctaaac cctctgttag 4380
tatttcctct ttcttagagt aaaagccaaa cttcttaaaa agtcagcaaa gccctacatg 4440
atctccctcc cccgcagacc ccattgttta tccaaatcac gtctccaatt ctctccccgc 4500
tgagtgctct ctccaggcac tctcacatcg tgctgatcct tcagtcaccc caggatcctt 4560
gcagttgcct ggttgttttc cctcacatgc tctttcctca gatatttaca aggttccttc 4620
tgtcatggcc ttcagctatc accttccaat tgggctttcc ctgactcctc cctctcctct 4680
catgatgtgc tccttatttc cactctctct tttttttttt ttttcgtttc ccccatggta 4740
catattaaaa ttgttttctt tctatgggaa cacagacatg gattttgtc tctctgtctt 4800
tatttctgta tcccactgcc aggagtggag cttggcagag agtaggcaaa cagttaatgt 4860
```

-9-

```
tgagtgaatg ctgaagcatt ggaagaaatc aaggaaggaa agaaagcagt aggagtgaac 4920
gaattatggc ctccctgatg ttaatgtcaa tgctggcatc tttctttgtg gaaacaacag 4980
ggactagtaa gtacaacaat aaaatcagtc actctcatac accctaacat tcatatgaaa 5040
gtacttcact aaggcaatca tagtctttcc atgcattctc tttatctctc tacttggcac 5100
agaagttggc atagagagat cccccaacac ctgagagtca cctgaatcac agaactcacc 5160
tgattcagag tcacctgaat cacagagaga agatacagca agtggtaata atagaaggaa 5220
taaagcaaat tctcaagtta tccatcacat cttttttcctc cctgtgtgtg tgtctctgcc 5280
ccctctgcct ttcccctcat gccactccca tacacagaac atgaatgtgt actctagcga 5340
gacagtacaa cactaaagca ctgcacacag caaccatagc ctctaaccag tagactagct 5400
ctatagctaa gaaccacaca ggaaaaaaac aaatcatgca ctgttttttcc agcttaagcc 5460
actgatagaa taagtaacat tgagagttct cagcaagtac agcagaggtt cagagcatgg 5520
acctggaccc agaatgcctg tgtttagatc atagccccac cacctgctaa ttaagtttct 5580
tttactactc tatgcctcag ttctttcatc ctgaagatgg agataaaaac acctgcctca 5640
tacagttgtt gcaagtcttt gcatagtaat gtctgtaagt gttccctatt atgatcagct 5700
attgtctatc ttaaatttgg aaccataaaa atagcattaa tcggaatctt gcagacaatc 5760
tatttcaatg tcttcctcaa ttcagaaatt ctctttacaa cttaattcat aagaatttca 5820
tgctgttttt gacaatgata gagaaccctc ctcttaagtt ccaccatttc ctcaaatgag 5880
cctgctatta tgctctagtg gctaaagcaa gggaacaatt ctttccttta taatctatcg 5940
gagaagtgac aaagttctta cggagatttg gaaactgtgc tttttccatt ataggccttt 6000
ctatacaact tattttctta atcacgtgca tataattatc tgatttaaat tgtttaatgt 6060
aaaaatgtag tcagaggtat ttggctgaga aaataaagat ctcgctgtat tcatgtttga 6120
ccgtgaaaga agatgcaaga tagtcaacag cacgaaatgt cattgcttca gccatgccaa 6180
aagataacat gtcatcacat gactttgatg ttttagctga tgtctcggca cactgagctg 6240
agaggaagga ctatgattat atttgtagaa tataccteac aagaataggta cacatgcggc 6300
tccataaggg aaaggtgaaa agtgtcaatt attgcatctt ctccagaact ctcagaatcc 6360
tcacttcatc caactggata aaggtggcca gggagcatcc tgagagtatc cacttaggga 6420
tgctggagaa gtgcttgtca aaacacaaag aactttcaat cagccaattt tgaaatacaa 6480
acataactct acttatgaaa ggggcttccc cttgccccaa aataacagtg ccaatccgac 6540
ccctctcaag gattatgcca aaggaatctt tttgcaaaaa ccacacctttt tacacaaagt 6600
agttcaaggg tcaaagttga tgtgattaat tatgggctca cactaagtgc tctgtggtca 6660
aacttgggct ctacctacat gcatgctcca tgtggtcctg gacagtacca tacgcagtca 6720
cccactgatc ttatagaaca gatgcaacat tatgggggagg aaggccttga gctgcagtgg 6780
gctgtcttca ggctcacaga gtaaccctcc tcgtgagggt caagaggatg gccaaatcaa 6840
acatacatct ctacaaatac atgattctca attcagacat taactacaat gagggaacag 6900
aataacctgt aagtcaagct caagacttcc aacaaccccca agtattgctg ttctttcttc 6960
actctagaag ctataatcta aaagtccacc tacggaacaa tgtcattaan nnnnnnnnnn 7020
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 7080
nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ttaaaagtaa tacagccaag tatgatttct 7140
aacgtacgcc tcttccttcc atatcacatt tctcagtcat ccgtgaagga atggaaagag 7200
atttgccatg tccattccag ttcagaaata ttataatttc cataattcat catgtatttt 7260
atactaagga ttctagagat gccatctcag ctccctgtgt gaggctcttt cccataatat 7320
gttctatttt aaaaagcccct aggcaagtta tttaccattt gccatctgtt ctaatattct 7380
ttcttgaaat ttcccttttca aacttaaaat tgcttgtatt ttagttttgt gcaaaattat 7440
atctatataa cacctcgatc tctttcccta tgggatcatg tgtagcagat gttaacatat 7500
tataaactgg aatgccattg gttgttccaa aactaggatg tttcttaatt tagaacatga 7560
cagcctggcg cggtggctca cacctgtaat cccagcactt gggaggccg aggtgggcgt 7620
atcacgatgt caggagtttg agaccagcct ggccaacgtg ctgaaaccct gtctttacta 7680
aaaatacaaa aattagccgg gcgtggtggc acatgcctgt agccccagct acgcaggagg 7740
ctgaggcagt agaattgcat gaacccgcga ggcagaggtt gcagtgagct cagatcacgc 7800
tattgcactc cagcctgggc gacaagagcg aaactccgtc gcaaaaaaaa aagtttacat 7860
ttccttcata gagatggggg gaaaaaggtg ccctaaagat ttttatcaca tctatcatag 7920
cacccaaaaa tgcctcattt gtagtaaata cccttctgt cttgtccatc tgcattttt 7980
ccactgcaaa tgggttggat gtctgttcag atttaataaa gaagatgttt gcttttcact 8040
ttgtggagat atttcttgga tccagagttt aaccttagca agcagggtaa gagtttagtt 8100
ttatacttaa tattatcttt atattacctg ttaattattc ttccacaata tgtaaaaatc 8160
aagtctggag tataagtgtc agcctcccag gtgggtaaga agcgtgtgca tgtggaccta 8220
tggctgttta ccgtggccta tggggatcat ctggaacaca ctggaacact ctgtagtgtt 8280
gcaggaaacc ctggaacact gaagaaatag ttctcaacac aagaagtctc tcatcctctc 8340
tttcccttttt attccagcct ttagtgagca aatccacatc tgtatgagca gtaattaaag 8400
```

-10-

```
tacgattgac actgcagttt ccacaaaagt gggagttgtc ttcctatgtt tgtttgtctt 8460
cctttctctc tatcaattcc ttcttcctct cttttcatct gttattcata ttaaataatt 8520
tacccttaag aaggcaatgc tctttccttt tttttttttt tttttttttt gagacggagt 8580
ctcgctctgt cacccaggct ggagtgcagt ggcgcaatct cagctcactg caagctccgc 8640
ctcccaggtt catgccattc tcctgcctca gcctcctgag tagctgggac tacaggcacc 8700
cgccaccacg cccggctaat tttttgtatt tttagtagag acggggtttc actgtgttag 8760
ccaggattgc ctcgatctcc tgacctcgtg atccacccgc ctcggcctcc caaagtgctg 8820
ggattacagg catgagccac cacgcccggc caatgccctt ctttctactc aaaacgtttt 8880
ttttttcttg aagggttcct ggttgattgt gagttttagg aaaggaagac accacttata 8940
tgtcagagtg ccccatatgt tggccagttg ttatcagcca tcttttttttt ttttttttttt 9000
ttttgagaca gtgtctcact ctgtttccca ggcgggagtg cagtgcagtg gcctgtgatc 9060
atagattgct gcaacctcaa actccagggc tcaagctgtc cttccgcctc agcctcccaa 9120
gtagctggga ctacaggcgt gtgccaccgt gctcagctaa ttttttttaat ttttaggaga 9180
gatgcagtct tgctatgttg ctcaggctgg tcttgaactc ctgatctcaa gtgatcctcc 9240
cacctcagcc tcccaaagtg ctgggattac aggtgtgaac caccatgtct ggccatcagc 9300
cgtctttata aattgtggag aactgtcagt tatcactttc tggaataccc taggtaaaat 9360
attaaagttc tagtaaacat gatataagcg gtatggcaca tgctcataat gcatttgtct 9420
tgcccatatg gatatcaaga atatttttata tattattatt gggcactcat tcagtgatcg 9480
cttttagaga gcggtgnctc cctttaaaat tcgggattac ctttanaatg ttttcaggga 9540
acatcctaaa aaccagtgtt cctaggctgg aaagaaggct atcttagaaa taaactggtt 9600
tatcactcag agctttcttc cctgttctca gtggtctatt tgtcctcaat ggtatcattt 9660
gaaaatgaga cagatgtgga cttaagattc tgtggtaagt cacgtgtgtt aaccactttg 9720
aaatctcagg gtgcaagcca ggggacacat agaaatatta ataccatctt tctgtcaagg 9780
agtccttctg gaagtatgac aacaaacaga tataattttg cttaattttt tgctatttgc 9840
attttttcctt atttcataac taactgtgtc tgtccttgtc gcccttcacg aagttgttga 9900
catgaagtct gagggacagg ccactgtaat tcagcagctg gaacagacta ttgaggatct 9960
gagaaccaaa atagctgaac tagagaggca gtatcctgcc ctggacacag aggtggccag 10020
tgtcatcaaa gggcttgaga atggagtgac agcctcaggc gatgtctgtc tcgaagctct 10080
caggttagaa gaaaaggaag tacggcatca taggatttta gaggcgaaat cgatacagac 10140
ttcccccacg gaagagggcg gggtgctgac actgcctcct gtggatgggc tgccagggcg 10200
tcctccatgc ccccctgggg ctgaaagtgg acctcagaca aagttctgtt cagagatttc 10260
tttgattgtg tctccaaggc gaatatcagt ccagctcgac agccatcagc ccacacagag 10320
catctcacag cctccaccac ctccatccct tctgtggtct gctgggcaag gacagcctgg 10380
gtcacagccg ccccattcta tttctaccga gtttcaaacc agccacgaac actctgtttc 10440
ctctgccttt aaaaacagct gtaacatccc atctccacca cctctgcctt gcacagagtc 10500
ctccagctcc atgcctggcc tgggcatggt gcctccccca cctccccctc tccctggcat 10560
gacagtgcct actctgccca gtacagccat tccccaacct cctcctctgc agggtacaga 10620
aatgctgcca ccccctcccc ctcctcttcc cggacgcgggc atacctcctc cgccgcctct 10680
acccggagca ggcatactcc ctctgtcccc tctacccgga gcgggaatac ctcctccgcc 10740
ccctctaccc ggagcggcaa taccccctcc gccccctctt cccggggcag gcatacccct 10800
tcctcccccт cttccgggag caggaatacc tcctccaccc cctctacccg gagcgggcat 10860
acccctcct cccccacttc ccggagcggg catacccct ccgcccccac ttcccggagc 10920
gggcatacccc cctcctcccc ctcttcccgg agcgggcata cctcctccac cccctctacc 10980
cggagcgggc ataccccctc cgcccccact tcccggagcg ggcatacccc ctcctcccccc 11040
tctacccgga gcgggcatac cccctcctcc ccctcttccc ggagcgggca tacctcctcc 11100
accccctcta cccagagtgg gcataccccc tccgccccca cttcccggag cgggcatacc 11160
cccacctccc cctctaccag gagcgggcat accccctcgc cccctctacc tggagtggga 11220
atacctcctc cgcccccтct acctggagtg gggaatacct ctccgcccccc tctacctggt 11280
gctgggattc ccccacctcc tcccttgcca ggtatgggga ttccacctgc tccagctccc 11340
ccactccctc cacctgggac aggaatccca ccgccccctc tgcttcctgt atcaggccct 11400
ccactcctcc cacaagttgg gagtagcact ttaccaaccc cacaggtgtg tggatttctt 11460
cctcctccat tgccaagtgg cttgtttgga ttagggatga atcaggacaa agggagtagg 11520
aagcagccca tagagccttg tcgaccaatg aagcctcttt actggaccag gattcaacta 11580
catagtaaaa ggtaacatga aagtgagctc gtctttgcac agtgtgtgtc agtattaggg 11640
aagtgtttac cttcaaactc gggaaaatta ctgttgaatg tatttgtattt cacaactcta 11700
aaactcgtct agatttttac atcaatatat agtgcagcag tttgctattt aaagctttaa 11760
gcttttctcc agaagtacca aagatgtaaa ataaatacat atacgtatca atgtataaga 11820
tgtaggtata cccatctatg tagttattga tatatctctt aaagattgag ggatatattt 11880
ttcttaaaat acatgctctg ttatctagtt gtaagactgc tacttattta tgcctaaatt 11940
```

-11-

```
ccagtgaaag tatgcttata tgcccttttgg aaaatgaatg agggcaggta agcagagaca 12000
tttgtagcga aattattttc catgtaagaa tctactcttt gcttttacta cttcaagttt 12060
ccatttctga caaacagctt aaaaatgtaa atcaaattct taaatccttt ttttttttttt 12120
tggagggggg acagagcgag agtccgtctc aaaaataann nnnnnnnnnn nnnnnnnnnn 12180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 12240
nnnnnnnnnn nnnnnnnncc cctactataa agtgggaatt aactcccctc ttctggacaa 12300
ttttacacaa ctatcaccaa taatatcaga gggaaggagg cggaagaagc aaagttcaaa 12360
ccaatagcta attccatctc ttcaaatact aataaaaaga tatgattata aaagatctta 12420
gaacaggtaa cctgttaaag aaaacgtggc acatatacac catggaatac tatgcagcca 12480
taaaaaagaa taagttcatg tcatttgcag ggatataggt gaaactggaa accatcattc 12540
tcagcaaact aacacaggaa cagacaactg aacaccacat gttctcactc ataagtggga 12600
gttgaacaat gagaacatat ggatacaagg aggggaacat cacacaccaa gacctgtcag 12660
ggggtagggg gcaaagggag ggatagtatt aggagaaaca gctaatgtag atgacagatt 12720
gatgggtgca acaaaccacc atggcatgta tatacctatg tagcaaatct gcacattctg 12780
cacatgtacc ctagaactta aagtataata aaaaaataaa aataaataaa caaatttaaa 12840
aaagaatatg tatcctgtat gccaataccg gttctctttt tggtacctgc tacattagga 12900
caatttcttc ccaaacaatt atcagaataa ggcttctcag ctttggaccc ttttgaggga 12960
ggacaatggc agaccaaaac agcagcaaca tgacatgatt ccaatgagaa gtcataatta 13020
acactgagat ctcactggca tttctaattg aaatctaaga gcctgtgcat tgtccttgta 13080
aggtaccctt aactatataa tttaaataaa ctgtttggga aagcaatcat taggctcaga 13140
aattaaaaca taaaaataac tacaattta ttgactgtat caactgtact tctgatggaa 13200
tgctaggtag tttacattat tatctcatta aattttaaga tatatgattt tcataaatca 13260
tgtttaaaca ggatagaaat ttcagcaagg aggtaacata gcatttactg ccaagggccc 13320
ataattccag ttagctttag acaggacata tataaaagac aggaaggaat cagagccatt 13380
cataccctgg gctgggtatc cctgcagtat attgaaacgt gtttccgtaa gtttaacgtg 13440
tcagactact aaatagatat taggtattcc ttgtgatgag atctgtaatc tattttcaaa 13500
tatttttgca gagggagtgt ctaagagacc acacctcagg gatggctgac cagcactacg 13560
caagaaaggc cattctccag aggcagttaa cgcaagctgc tcagctatct ctatctaaat 13620
caacaaccga ggctttaata cgcatactaa tgtctgaaat gggctttcaa tggtgaaatt 13680
aaagtcattc tggaggtgtg gattagttgc aatctcttag agatgctcca ctcctacctc 13740
ttccatagct agaataagag tctactgggg gctaatagct ttgttcttta aggaggctgc 13800
ctgaggccta ggacctaaac agtactgggt gcagccactg gctgagttga ctttctagat 13860
gtctcgtgca gactatgagg gtagcagatt cctacatctg tgccaagctt atatctgtct 13920
gaagcaaacc tttcagatag atcacagtga gagcccctat aaagacagag aggtaaacaa 13980
cctcaagttt atgaagcagg gtttttcaaac tattttgctt gagatggcca ggaaatacca 14040
gtgtaatata tatctgtgtg tgggggaggg ttcagtctga aacttgcttc agttcgatct 14100
ggtagtaggg tgacaatact actagcttat ctgaaaagtt cttggggatg ggtgaggtgg 14160
ctcacgcctg taatcccagc acttttgggag gctgaggcgg gtggatcact tgaggtcagg 14220
agtttgagac tagcctggcc aacatggtga aaccctgtct ctactaaaaa cacaaattag 14280
ctgggcgtgg tggcaggtgg ctgtaatccc agctactcgg ggggctgagg gataagaatt 14340
gcttgaacct gggaggcgga gattgtagtg agctgagatt gcgccactga actatgcctg 14400
gatgacagag tgagactctg tctcaaaaaa aaaaaaaaaa aaaagtaaaa gttttcactt 14460
tacatttgtt atccaggcaa gattatcaat gacatcccct tctactctta aagcagccca 14520
gtgagtattt cgatcgaacc gtgacaatgt tgggggataa agctgaagct tatggaaggg 14580
caaattcttt tgcagctact gttatctatg aaaatggacc taagatctgt gaagagcaca 14640
ctgacccctg aaatacagac caaacattgt ataaaatatt taatcaattt tcacagaagt 14700
gaactaccac tatgaagctg taggatactc ttataatatc aatttatggg aataacaggc 14760
caaaattatt tgaaatcaat ccccccacta acaacaacta aaaatgctga gtaaaacatg 14820
tttgtaaaat atcataagga cgtcaaagag ctgacaagat ataattacca tgctaaacaa 14880
aatgaagagc gaactcagag aagtgatcca gctcacaaac tgcttttgcc ctgagtgtat 14940
ttgcctatcc taacaaatgt caactttctc ttgacagttt cacggtggga ggggccaaat 15000
atcaaagccc agaacccact catcatagag atcctagaca taccccacaa tgaaatggga 15060
ctcaaaggac tatactggtt gtgcacatgt accctagaac ttaaagtata ataataatta 15120
aaaaaaggg ctatactggc aggggaacca acccattcag tggacaaaca gcactggctg 15180
aagggaccct cctacagccc ccagagtgtg attcaaggtg ttcctaaatc cacagggccc 15240
ccagacccta gcacacacac aaaaagggta aatcttctct ggaaggcact ttcatctcag 15300
acttcaaatt actataaacc acagggtgag attttttcag aggtattata actgtaggcc 15360
agtttgaaca ttaccaaata gccagcagct caggccttca ttataacttt tatatactaa 15420
cacacacaca ggtaattatt tggggatgcc cccttatatt tgccgcatta ataaacttag 15480
```

-12-

```
gaacctgacc tcttctctcc tctctgcctt ttgaatgtat gtgttgctga gaatgctcca 15540
catctattat tgtgggaaat aacctgtatt caaataacag actgagcaag tggtgctcag 15600
caggaccagg gttagaactt tgatacctag aatccaaacc ttacacacta attactctaa 15660
tggagcactt tgaaatataa acattacaaa gtaaatgaaa acctagagta ctgacagcaa 15720
agaaggagag aaaatgattc ttgctgttta ttacaatatt acatatactt tgttttagat 15780
aaaccaatgc tggtggtaaa aaaaaaaagc acaatcttgg agaagcagca tgtctgaatg 15840
aaaaaaaaaa aagtactggt taatgaaggg gcctgagtgc aagttcaatc catttcatta 15900
atgagctgcg tgatactgag agggtaactg gaccactcac aggtcttatt ttgcctatcg 15960
ataaaaatgc cacatagcca aagaaagact aagcaaaaag aacagatctg gaagcatcac 16020
attatctgac ttcaaactat actataaggc catagtcacc aaaacagcat ggtactggta 16080
taaaaataga cacacagaac aatgaaacag aacagacaac ccagaaataa agtgaaatac 16140
ttacagccaa ctgatctttg acaaagcaaa caaaaacata aagtgaggaa gggacacttt 16200
attcaacaaa tgctgctggg ataattggca agacactgta ggagaatgaa actggatcct 16260
catctctcac attatacaaa aatcaattca agatgggtca aggacttaaa cctaagacct 16320
gaaactataa aaattctaga agataacttt gggaaaaccc ttctagacat tggcttaagc 16380
aaagacttca tgaccaagaa cccaaagcaa atgctacgaa aacaaagata aatagctggg 16440
acttaattaa actaaagagc ttccgcgtgt caaaaggaat agtcagcaga gtaaacagac 16500
aacccacaga gtgggagaaa gtcttcacaa tctatacatc tgacagagga ccaatatcca 16560
gaatctacaa ggaacacaaa caaattagca agaagaaaac aaacaattcc atcaaaaagt 16620
gggctaagga tataaataga caattctcaa aagaagatat acaaatggcc aacaaacatg 16680
aaaaaatgct cagcatcact aatgatcagg gaaatgcaaa tcaaaaccac aatgtgatac 16740
caccttactc ctgcaagaat ggccacatta aaaaaaaata aaaaaataat agatgttggc 16800
atggatgcag tgaaacggga acatttctac actgctggtg ggaatgtaaa ccagtacaac 16860
cactatggaa aacagtgtgg agattcctta aataactaaa agtagaactg ccattggatc 16920
cagcaatccc actactggat atctacccag aggaaaagaa gccattgtac gaaaaagata 16980
cttgtacgtg catgtttata gcagcacaat tcacaattgc aaaaatatgg aaccagccta 17040
aatgcccatc aatcaacgag tagataaaga attgtggcat attccatatg atgaaataat 17100
actcagctat taaataggac gaatttaatg gcattcacag caacctagat ggaaactggg 17160
gactattatt ctaagtgaag taactcagga atggaaaacc aaaccattgg tatgttctca 17220
catttcataa gtgagagnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 17280
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnggt 17340
agggagcact acagctattc cagagtattt aagccgggtt tagtgaggga tcctgtgggt 17400
gttttgcca atactccctt gtccctatag gaattttgct gatctctaac gttcgaggtt 17460
atacagttga gtgtacactg taatggaccg tgtatgtggg tcgtgtctgt aatgtcatct 17520
cttgggaggc caaggtggag atcacttaag cccagcgttc aacaccagcc tgtgctacat 17580
gacaaatcct catgtctaca aaaaatttta aaaattagct gggagtggta gctcacacct 17640
gtaatcccag cactttggga ggctgaggtg gaaggatcac ttgagctcgg gtgacgaagg 17700
ctacagtgag ccgggatcat gccaccatac accagcctgg gtgacagagt taaaccctgt 17760
ctcaaaaaaa aaaaaaaaga aaagaaaaga aatgagttgt attgacattg cacggcacag 17820
aatttcttct cttaggaacc attagagaca cttctttggg atattagttg tgcttctgtg 17880
agtgactgtg ttttcaatct catggacact gaggaagaca ctcacattcc cctttctgct 17940
ttgcacctga gggctaaatt tccaattacc tttaaaaatg gcagatcctt atgagataca 18000
tttcacttgg ctgtcttatc tcagcttcat tttattgttc catcctaaat tccttttcgt 18060
ttgatctata ttcctttatg atccttttgt acattttaca tatttataag ctgctcaaat 18120
cttttttttgg aacaaaggtg aattacaatg tattcagcca gtgcacaact gcattttaaa 18180
ggattttcac atgaaaatct tctgccatgg ttctttgttt ctttcttttc ttttattcct 18240
tgcagtagga agtcagctac catatttcta ccagatcctc ttccatatat tttcttctag 18300
gattttctgt gccttgattg cctttctaaa aagtcagttc tctgtttcct ctcagccatt 18360
cacattttca aagaaaggga agggatttaa ttttccacag aggaaacgac aatgatcaag 18420
tccctattca catctacaca ccttgctcct gctccaggtt ctccatgaat ttgaaaactc 18480
aagttaatta tttgatgttg ttcaaatcta ttgaatgacc tttgaaactt ggtattgagc 18540
ccctaaattg gtccaagaac tgttttagcc catacaaaac tctccctcaa atcttgcatt 18600
aatgtgctaa gtagatgttt atttagatct tttccagcaa aagaatttca tcattcactc 18660
aaatatttaa gtacatacta tgtgccagaa agtcttgaaa ttctgaaagc tgatggggaa 18720
gacatgtata tgtataaaca gaaaaattca atacgtaaag cattcagatg acagagagat 18780
gaataggatg tcatgggact ccagaaaagg gtccatgagt gggaaacagc catggatggg 18840
tgggagactg ctgtgtatag ccaagggaaa ctgagggaga agataaagag aaaatgataa 18900
atagaaaggg tttctttgta tcaatgtttt tgccaccaac tggtttgggt tttttatttg 18960
tttaatgcca ccaacatggg aagcacatta cttccttttt tcccagccag tcttatcctt 19020
```

-13-

```
caggggtgtt ctgcagactt caaaaggtca atgttaacac tttaggccca tctgtggaga 19080
caatgccaac tgcagaggga gccaggatga gaacaaagga ctgccaggaa tctgcaactc 19140
actggtgaga agaggcacca agacctcacc atggcctcag cccttccaat tcatacaaag 19200
aagggtcagt tccttcacca atccataaag gaggaaaaca ccatctttca cagaacagat 19260
cgtgaaaaag ttaaagtgag atgctcccta tgcagttaaa gtgagataca tgaaaaaggc 19320
agaagacaga gtaccacaaa tctgaactag ctggacatgt gaattgggta accaatttta 19380
agagctggaa aaaaggccca gtgcagtggc tcacgcctgt aatcccagca ctttgggagg 19440
ccgaggggag tggatcacct gaggtcagga gttcaagacc agctgggcca acatggtgaa 19500
accccgtttc tacaaaaata caaaaattag ctgggcatga tggtgggtgc ctgtaatccc 19560
atccctttgg gaggctgagg agggaaaatc acttgaaccc gggagacggt ggttgcagtg 19620
agcagagatc atgccattgc actccagcct gggcgacaga gtgagactcc aaaaacaaac 19680
aaacaacaac aaaaaatgag ctgaaaaaaa caacgaacga agcacgcagg aaaaaaaaaa 19740
gtcctcaatt ttctaagcta gacctgcaag tctttcttct tcagaaaatg tcactgaact 19800
ctttcacttt gaattaaaat agaaaggggt cacccgggca cagtggctca tgcctgtaat 19860
cccagcactt tgggaggcag aggcgggcag atcacttgag gtcaggaatt cgagagcagc 19920
ttagctaaca tggtgaaacc ctgtctctac taaaaataca aaaattagct ggcatggtg 19980
ttgggcgcat gtaatcccag ctactccgga ggctgaggca ggagaatcac ttgaactcag 20040
gaggcggagg ttgcagtgag ccgagatggc gccattacac tgtagcctgg gtgacagagt 20100
aagaatccat taaaaaaaaa aaaaaaaaaa aggggtcatg tgttatatac agtggattta 20160
accaagatgt cactacagaa gaatgtgcat ctatcagtta actacaaata gatcattact 20220
attaataatt atattatcaa actttgtgat tgatgtaaaa catggagctg taggcaaagg 20280
ttacctatga tactgacatg cccactctta caactgactg attagaagag agtgtggtat 20340
ggttctggga acgaggctgt ctcatggaag tgtctctcca aatttacgtc agggagtcac 20400
aacagaagaa gtttagaaag acccattaga tcactctgat gaaaaaatgc tatatgactg 20460
ctgggggttta tagatcaaca agagaaaaat aagtcactaa gttaaattac ttcttacctc 20520
catcatcctc ttcaagaatg cattttaaa aaggagacaa gttatttcat taaaaatcac 20580
ttgctctagc attttgcaag ctacatcaaa tcatgaagca aaaaccaggt gacaaacttc 20640
ctggtatcaa ttccaactat catctttac caaactaaaa ttcaggttat cacattcaat 20700
taacttcgag tcaagtgctc caccagtata tataccagca acataaaatg tttcataatg 20760
ttttataaag ttccctaaaa tttaagaata tcatataaat gtttcagtta gaaaagttga 20820
gaatgataca gtagggaaca gaaaacatga aaatatcacc caatcaatga tgcaaaacat 20880
gggataaaag ggctctccat gcaactgatt aattcaacta tatctacccc taagtatttt 20940
gtatcaataa atgttatcat aaatagagta gtgtagaaaa tgggatcaat acttttaatt 21000
gtgtgttttc ctttgaaaac gaaaagtcct tttacttgct tgattttcag gtgctatcat 21060
gttagaggtc tctgatctct gaagatcttt gcttaaagga agtctgcctt ggcctttgag 21120
aaactgctct ctgtaagtgt tacgataaac tcagtaacct ggaacaacac ttcctggaac 21180
aacacttcct acaccctctc tctcatttgt tgttcatttc agggagtaca gcccacctag 21240
tgaatatcaa acagtgtttc aaaagcactg gacatctcaa aaggagatt caaggtcaag 21300
tgtgggccct catttcagtg catcagtgga aagaaaaaag gcgcaaattc attcctccag 21360
agactgggat gcaaatggga ggcaagtgca gaactttggg tgggggactg gaataaaacc 21420
ttttacattg ttggtcattg tcggttgaaa gggacctcat gaataaggca atgacatgaa 21480
acaatgataa taattgtaat aaataatatt aaatacacgg agctaggcac tgcattctac 21540
attctaatgc ttcatataaa tgcctataat tctcataaca gccctacaca gtacatgcta 21600
tgctcatcac cattttacag atgagaaaac tgaatacagt tgttaggaaa tttgcctaag 21660
attacaaagc taataagttg gcagagccca agctccatgc tttaagtta tgctcttcta 21720
ctatgcatcc aaaataagtt tctaatgact gtcttcctct ctatgagcca atgagaaaaa 21780
aaaaatcaaa attcttaact ctaatatcta tgttaccatt taggaaaatc gggtggagga 21840
gaaatctatg aatagcaatg atgttcttct atttactcct cactcatgct tcagaaatca 21900
atatttatgc ctggtcagtc caccaggagg aagttgggaa tttattacaa caaaatgaag 21960
aaaagcccag gtgcggtggc tcatgcctgt aattccagca ctttaggaga ccgaggtagg 22020
agaactgctt gagcccagga gtctggatca gcctaggcaa cagagtgaga ctctggctct 22080
acaaaaaaat tagctggacg tggtggtgta tggctggagt cccagctact ggtaggctc 22140
agttgggaga atcgcttgag ccaggggaagt tgagactgca gcgagtcatg ctccactgca 22200
ctctagcctg ggtgacagag aaagaccttg tccagaaaaa aaaaaaaaaa gaagaagaag 22260
aagaaggggg gaaaaaaggg caaaacaacc atattccata aagcattgat tgttacacaa 22320
atatggttct cagttctgta tgacaaatat aaagtgtttt cttaaaacca ggcttggggt 22380
catcatcctg ctgaactcct ccaaataaac ctgaggctga tctcacgcta tcttcccagc 22440
caataacaca aaataagaca acaaaaggaa caaagagaga aaagacccca aagtaaaaac 22500
tttttgaaga ttatatctga atgccatgca attaaaaata aaagattact taaaactaag 22560
```

                                -14-

```
atttaataaa acttctctct ctctatcttg cctcttccag ttatctctga agacaaagga 22620
aagggttacc tgtttcagca tcctcgagcc tgtgttcctc atcgggaggt ttggatggtg 22680
gccccatgga tggaactcgc ctaggaaact gcccttctga atagtccaat gagtgtgtgg 22740
gttgactaac tgcagcccag gctataaagt tgatcttgcc atatttaaaa ataaaaaatg 22800
ttgaaatgct attaattcag ttacaaaaaa ataagccatg actaatacat tgcaaaatca 22860
tttctannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 22920
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagaa cggaagcaag 22980
ctgtgatgga tctaactaag aagaaagcag gaaccaagga gaggggtgg gagagagatt 23040
gaaacaacct actcagttga ggaacaacat ccagatgatg ttacaaccag gagacacagc 23100
tctccaaact gaagtctaaa atatacatca agacaaccaa atgagagaga caggctagga 23160
gagcacaaga ggctcttctt ggtaacctta ccaaattcca cagctgtcag tctccttctg 23220
aggctgactc agacccaaag gcaggacaaa caaagcaaga cgctttccacc cacactatag 23280
cttgatcctc tgccaagagg cacatctggg accaagttca gaagcaggct tctagattct 23340
taatcagtga gaggtgtcaa atgtcacctc accaattagc aaactgtaat tctgctttgc 23400
ttctgagatt gaatctaggc tgcccgagta aagaggattg tctggtgcca accagatagt 23460
ctggagatac cacttgtggg catggtcagt gtcagtgcct tctgtggtct gcagtgcctt 23520
ggaatgctgt tggatgcctg tgagatcagc caccctcccc tgaggcttac cattaatctg 23580
agtaggagaa tacggtagtg taagtaagac tgcagtcttc cttggttgcg ggagtagacc 23640
gaaaaaaaaa accaaaaaac aaaaaaccct gataacctct tgctctgcaa aatctcatgc 23700
aagcattctt cacttttgag tgtagactag ttaagattta aaatgactac tgtttttcatg 23760
aaatagtatc agacagttca gaaaaggctc atggttcctg attctcattg ggtcaaaaat 23820
ctagagatga atttatcttt ccaaagtaag aaaactgaat ccaaatcaag gttatgagat 23880
agccaacaac agtatgtcta aagagttctt ggagaaatca cactttgtaa attcccaagg 23940
ggcaggagtt ggccaatgta tgggttgttc tccttcttaa ttttagatgt ttatttctta 24000
tcgccttcta ttgtctctgc tgttcctctt gttggaataa actcaagtga ttttacaaca 24060
tcataaatat aactgccggt tattggatta caaaataaaa cactagcacc tggcatttgc 24120
aagacatttt atgctttgaa aatatttttat actttaccga atttgtttat ctcaagttat 24180
gggaatattg catatggatt attaactgta ttctacaggt aggaaaattt agatcttgag 24240
gccaaggagc ttgtccaaag ttacatggat gctaatttag gcaaagacat gtcctgaaat 24300
atggatctcc tactctgata cagatcaaat cattggaaat cttgagtttg ggaattgttc 24360
tctttgcctt tccttctatt cttacatctc ttgttcactt tggatttact atttcatatt 24420
tacttatatt ctcctggtca ttagggtatt cttgggtgca tttgatagct cttattcctt 24480
gaatacattg catacctctg gatataccac cttgtgctct aatgtcgttt gagaaacaac 24540
agttttcaca ttctgaggtt ctgctttgaa atttacctta attcatctct atcgttgagt 24600
aatcttatct ttttctcttc agagaaagat ttgccttatt ggatctggcc atttatccct 24660
tatttaatgt ccacttttca gcaaggtcat gacatgccat ttcagaagaa agcaatatgc 24720
tcttttaact aggaatcagg aaactaaaac ttttgttgtg gctctacatt tagactgtgt 24780
gcaaattatt tactagcttg taaaaaattg tgagatttta ctagcttata agaaattgta 24840
agattttact agcttgtaag aaattgcaag aaacttcaag ttatctctat tggatattta 24900
atgtggagct cttttgatgtc atcttaatta gctaatattc catgtgacac atataaaatg 24960
catactatgt ttaaacttcc gaattagcaa taaacaccat gttgactgat caaataatta 25020
tttaaatgtg gttttggcta cttgtgtaat aaatatagtt cacataaact ttctactatg 25080
tcttgatatg attctaagtt acagaagata ttatcttgca gttcttgaat ttaatagtag 25140
aatcacagtt caaccattat tcaaatactt cctttttcaaa agaagtattc agtggttccc 25200
aaatctgcac cagcatcagc tgtggtattt tttttaaaaca tacatattcc agggccctac 25260
tctagagaaa attgactttt cagaaggttg agcaggatcc tttatttaag aaggtaccta 25320
agtaattctg atgtctagcc aaggttggtt gtctaaccat ttttccaagt ttattgtggg 25380
acatctaagc tgggcatagc agtttaaaca aggtttactt attcagcgga ctttttggat 25440
gcttacaata tatcaatcat tgtgctgaga acaacagtaa gcaatatgac acagagtttg 25500
tctaaaggta ttatacttta gtgaaaattg cccccaaatc actttatcat gtatatgttg 25560
cagtaggaga gtatatagtc tcaaaagagt aaagaagtgg ctcctaagtc agctcctgta 25620
agagttctgt gggaagtaca gggatgttca ggagaagcat cacagtggaa tgagacttga 25680
acattcctgt ccactgaata gtcagagttt gtcattttga aaatagaaaa tagaagagaa 25740
atacattatc aggggccact aaatatctgt taaaagggga ctgacaggat gaaggcagta 25800
cagaatgctg ggctgagagc aggactgaga tcctagaggc agaatcccag tctacccgta 25860
ctctctggga ggaagtgatg agaacttgca gcagggtggt ggtagtgaaa gagaagaatg 25920
aaagacaagg aagcatcagt ggaacttgat gtgtggctgg ataccagaaa tgcagaggaa 25980
gttagtcaaa ggttcccgtc ctgatgactg gagatcatgg tatcactgac tgagctctag 26040
gggttgtgaa atagagctca ttaggcagag gatggtaagt gtctggtttt tttatggttt 26100
```

-15-

```
tccgtgcatt taccctactg cctagcacaa tgcctgatgt gtagtagggg tattagttaa 26160
aatactggtt tggtggtctc tgttgtgact tgtaaaagat gaaaagttaa ttttatcttt 26220
ctcatggaga aatctaggca ggtaagtgcc cagggaggtg cagtgcctgt gttccatcag 26280
gttgtccaga gattcattcc ccaggccttc tgttgcttca ccctcagggc atagtataac 26340
tgatgatggc tcacttccat aattctgcct cagcctgaga ggaaaaggat agagaaagta 26400
gagggccagc caggcacagt ggcttacgcc tgtaatccag gcacttgggg aggccgtggc 26460
gggcggatca cgaggtcagg ggatcgagac catcctggct aacatggtga aaccctgtct 26520
ctactaaaaa tacaaaaaat tagccgggca tggtggcgga tgcctgtagt cccagctact 26580
cgggagactg aggcaggaga atcacgtgaa cccaggaggc ggaggttgca gtgagctgag 26640
atcgcaccac tgcactccag cctgggcgac agagcgagac tccctctcaa aaaataaaaa 26700
taaaaataaa taaaaaaagt agagggccag ccagcctttt gaaggctgcg cttttatcgc 26760
tctccgcatt ctgttgtccg taacttagtc atatggctat ccctggataa aagtaggatg 26820
taggctggcg ctgtggaaca tggctgtaat cccagccact taggaggctg aggtgggagg 26880
gatcacttga gcctgggagt tagaggctac aatcagctat aaccatgcca ctaagagtac 26940
ctcactgaat atccactgca gtctttggaa tttgatactg ttttaatcat ttttctaggg 27000
gaggtaactg aggctttagg atgttggggt agcttttctc caacacatta gaaagcaagt 27060
aggagaacct cacaatctgt gcaccagaag aactggcatc acccgaaagc tcgttagaaa 27120
caaagaacct cagtcccacc cagatttagg gatcagaatc tgcatttttaa aggatcccag 27180
atgattcaag tacacatgaa gtttgagaaa tactgcttta ttttacagag accgtgttca 27240
taatctctac acagtcctgc cttctaggga agcctgagat gataacttta ttaagagaat 27300
tattaagaga cgtgacatta aagcagattc aagataattc ttttttctga ttataagttc 27360
taattttata gatttcaaat gtgttaattc tgcattttct gcgtttttgcc tcagttctga 27420
gatcatctta gaagagtgta ctctcctctt cattgtattg tggtcactga attctaagaa 27480
tgttctaact ttaggttctt cttctccaag gtgttggaaa aaaaggtcag atcatagcag 27540
tggttcgtaa tgcaaagttt gggttactta aggacactgt ggaatccatc cttttagaca 27600
tctgtcctct tctgaatgtc tgccttctga aaggtggtag atgattattg ttcctatgta 27660
aaatcttagg catttaaatg taaaatccag tttgtgatca agtgtgtttg aattataata 27720
gaaaaagcag gctgggagtg gtggctcaag cttgtaatct catcactgtg ggaggcccag 27780
gcaggcagat cacctgaggt tgggagtttg agaccagcct gaccaacatg gagaaacccc 27840
atctctgctg taaatacaaa attggctggg catggtcccg catgcctgta acctcagctc 27900
ctcaggaggc tgaggcagga gaatcgcttg aacctgggag gcggagattg cagtgagctg 27960
agatcgtgcc attgcactcc agcctgggca acaagagcaa aactccattt caaaaaaaaa 28020
aaaaaagcaa attccatata tgaaatgtga aagattctat aagacttttt aaaggactaa 28080
cccttaaaca tgagccaatt gggtttaaaa cctatgatta aaaagcaaca tgcagatatc 28140
aacattttta gagaggtact tgggtatcag tttggagaaa tggacagaag gcnnnnnnnn 28200
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 28260
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngaattcat tggtggttgt ggccagaggg 28320
aaggatattg gtgtttaaga cttcagaggt ggaggtgttc tactcattcc aaagaccagt 28380
ccatggtgga gaggtaggct cgttgtgatt agaattgaga agctcagggt gttggctggg 28440
acttaatgtc ccatagaatg tagaagagtc aaccttgaga agcagagaga ggaccatgtg 28500
gtaaagtcct tgacatgtga aggctatacc aaggaggttt gtcagggtct gtgatgagga 28560
ggggtagatg ctgatacccc tgggtgatac gggctttgga agtggagtgg gttacgctca 28620
ggatggacgt ggaatactct ctagatgatc atggagggct agattagagg gtcgcggtat 28680
gagggaggat tggaaaaatc acctttcagg ttcagtcatc gtttggcttg gatgatcaca 28740
ttggcctttt cattaccttc ttgggtttgc ctgttactgg tttccagtcc agtctcctca 28800
gccttgtcta gtggttctca ttccagggtt atgttgccct gcagaggaca tttgacaatg 28860
tccaaagaca tttgggggttc tcacagtagg gagaggggtg caactagctt ctagtgggta 28920
gagactgggg cactgccaag cattctaaat gcacaggaca tctccttctt tcccctaaca 28980
aagaattaca aaatgtgcaa aatgtcagta gtgccaaggt tgagaaatct agtgatatat 29040
gtctgatcat gttgttttat tttatttttt gagacagcat cttgctctgt catccaggct 29100
ggtgtgcagt gggtgatca cagctcactg cctgccttaa cctcctgggc tcaaccgttc 29160
ctctcacctc agcctcccaa atagctggga ctaaatgcaa atgccaccat gaccagctaa 29220
ttaaaaaaaa ttttttttaat agaggtgggg tctccttatg tggccaaggc tggtcttgat 29280
ctcctgggct caagtgagcc tactgccttg gcctcccaaa gtgacgggat tacaggcatg 29340
aaacaccgca cctggccatg tcattttaat tgtttctcta tcagaataaa ctccagcttc 29400
tttggatctc catggtcttc cttctgcctt tcaatacttt cccacttcta cctctcctga 29460
cccactttcc tttccaaact cttttgccac gctgaagtgt tattgatttt cctaattgtc 29520
catgtcttct ctcacttgtg gggctctgtg ggcacctcta cttctgctcc ccactattat 29580
ttcccagtta gcctccactc tttctcatag gatgctattc agagttagat gccattcctt 29640
```

```
cccagacatc ttctttagcc atctcagtct gcattttctc tctcaaagga tatattacac 29700
atattataat tgcctattta ccctgtaaca cctgaatgca aattaaatat tgtgtgaagg 29760
ttccttgaac aatgtaatgc tgtgtccttg tgtttacctg acagatctcc ccagagtagt 29820
taggagtggt ctctagtcct agactggatt ctaatcccat cttctccacc cacttaagag 29880
gtgaaaacat ttacccaagg tcacattaaa atttttcatg tctaataatc tctggagttg 29940
ttttgaagat taaatgagat taatttatta ggcatttagc acaatgtcta gcacatcatc 30000
aatgctaggt aattattagt gattggtatt taatattatt gcctttcaag ttcttattac 30060
agaatcaggc ataactgttt aataaatatg ccttgatttt gtaaagaaga gagctgtagg 30120
aaagccatga tgactgcagt gaggaggaac tggagaatct attcagtgaa ttgtcttgaa 30180
tgatcaaagg ttgcctatgt ttgataatct tgaaaacact tggactgggt gtggtggctc 30240
acacctgtaa tcccagcact ttgggattgg gaagctgagg caggaggatc gcttgagccc 30300
aggagtatga gaccagcctg ggccatatag ggagactctg tctttacaaa aaatttaaaa 30360
aattagccag gtgtggtggt gcacacctgt agtcccagct attggagagg tgggaggatc 30420
acttgagcct gggaggttga ggttgcaatg agctgtgatt gcaccactgc acttccacct 30480
gggcaataga gtgagaccct gtcccaccaa aaaacaaaca aaacaacaa ataaagagag 30540
acagagagaa aaaagaaaac acttgaagag ggagaagatg ggagaaggga tgggatctgg 30600
ctgtgttctg gaattaattt attagtctgg gagttgactc tgtattggat ctcttcttct 30660
gggcttattg ccatcctcct ttctcaatcc attttactta attttactgc tataattacc 30720
acattccttc accaaccctc atgcccccac atctttctgg atggagtgga agggaaatgg 30780
aaagagtagg gaaagctacg gggaggtaac tgcaaattgt gaagggaaat ctgtcatgcc 30840
cacttggtgt tatgttcatg accatcccgt agtgactcca tgctttccct aggtcagtct 30900
gtggaagtat tgcacttgaa tattgacatg cgttgtgctt atttagctct ctgtgtgtat 30960
gtgtgcaagt gtctggcata cttgacagat aacgtggcat ggaagaatga atcgttttgc 31020
tttccctagc acctcaccaa agaataggga cctccatttc atctagaatt cctaagacag 31080
ggaggaacca gagagggctg gagattgttt tgctacacaa cattgctctt ctctttcaaa 31140
gagttcattt tattttcttg attggataat ttcttgtggg gtaaaatcat ggatgggaac 31200
agtcaataca tataaatagg aagaaatctg cttactgagt tttctgtaag ggatattttc 31260
caatccaata ttacttttttt cttatgaagt caatttattt cataaagaat ataataagtg 31320
gatatgtatc cagaagttcc tactcgattt cttttctttga aggctatgca cttgttatat 31380
ggtttgaaaa aaattgcctc gtatggggaa cttttcttta ccacaatatt gattgtatag 31440
tgagttaaat tatgtcccct ctgtttgtag tcagatagtt cagtgtgaag tagaaggctt 31500
tcaatatata ttttaaaaat tgttaattct ctggaatcta tcattttcga aaggactttg 31560
tcatgtttct ttttttttttt tttttgagac agagtctcac tctgtcaccc agttggagtg 31620
cagtggtgcg atctcggctc actgcagcct ccgcctcctg ggttcaagcg attctcgtgt 31680
ctcagccttc cgagtagctg ggactacagg tacatgccac catgcacagc taattttttgt 31740
attttagta gagatggggt tttaccatgt tggccagagg gccttgaact cctgacctta 31800
ggtgatctgc ccaccccggc ctcccaaagt gctgggatta caggcatgag ccaccatgcc 31860
tagtcatgtt tttttttttt taatcaattt atagtaattt gtccccagtt actactcagt 31920
gaatgtttgt atgactggat cttgtagtaa tcagtaacca agttttata catatgtgtt 31980
taagcatatg tattttttaag catagttgga gattattatg tttaagccta ttttgagatt 32040
attttatttt tctgatccgg tacgtgattt aataaatttc taatatgtgt tgccattttat 32100
gtatcttatt tcagagggca aaacgggtga tgttttttccc ccgttatgct caattcaagt 32160
gcatcgttgc aaaagtagta atgatagtta ttgttattcc cccgatcatg aagttttctg 32220
agctcagagg aagtgctacc agtcagtagt ttcatagatt ttagaatgct tcccaacagt 32280
aaagttaatt gaagcttaga aaaatagatt tttaaaaaac acactcgtgg caatcagact 32340
ttttaagaca atgacatact ttcttcatga ttgtttttttc ctcctttaag aggattatgc 32400
tgttttagat atccattttg actttcacaa ctggtacttt tttttaatca cccatttggc 32460
aaacagtgtt gggtgactca gaattcattt tgaatttgta tgatggactt ttattaaaag 32520
gggtgactca gctcgacttt tctgtcatga ttttctttttc ttgtctttct cctgtagatg 32580
cactgaatat taattagttc tattgatgtg acttgtattt cttctgacct cctttttcctt 32640
ttctcaagag ccaggaggag tataaaattg ggaatctggc ctggtgcggt ggctcacacc 32700
tgtaatccca gcactttggg aggccaaggt gggcggagca caaggtcagg agtttgagat 32760
cagcctgacc cacatggtga aaccctgtct ctactacaaa tacaaaaatt agctgggcgt 32820
ggtgtgggtg cctctaatcc cagctactag ggaggctgag ggaagagaat cgcttgaacc 32880
caagaggcgg acattgcagt gagccgagat cgcgctactga cactccagcc tgggtgacag 32940
agtgaaactc cgtctcaaaa aaaaaaaaaa aaaaaaaaaa attggactc tatggcaaag 33000
tgaaggaccc tgtacagaga aaacatgact taattcagga gcttaaaggg ttttttttgtt 33060
tcttgttttt tgtttttttt taggtcctcc caatttgtac tggactttgg aaatctgaaa 33120
gaagatttat tctcctgtta ttaccttttat tgtctagatc aggggttggc aagttttttct 33180
```

-17-

```
gtaaagggcc agatagaaaa tattttaggc tttagtaaat attttacagt gcctgtcaca 33240
actactcaag tccactgttg tggtgtaaaa gcagccacgg acaatacgcc actaataagc 33300
acggctgtgt ttcctaataa aactttgtat tacaaacag agcacctggc catatttggc 33360
tggcaggctg tggttggcta gcccctgctc tatactcatg taatacatag atagtaaatt 33420
tattctctga gcttttcttt ctgtctctta ccatgtgtgc tcaccagcca gtcacacaat 33480
atttatggaa tttttctatg aaaaatatag ggcctttct tgttcttgtg tagcttactg 33540
tggaaagggg ctactgggtg aacagacacg gtggtacagt agttgataaa gggtgataga 33600
agagttttca ggttttgagt ggtcgaggat gccggagcc tggagcccag tgtacaggag 33660
gaggaacaga agaggcgtct taacaaatgg tactgtggcc agatccaaca catggtttct 33720
gncctcccaa tcggtgcaga ctacccgtnn nnnnnnnnn nnnnnnnnnn nnnnnnnnn 33780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnn 33840
nnnnnnnnga gaccagcctg gccaacatag tgaaacccca tctctactaa aaatacaaaa 33900
attagcccgg catggtggct tgtgcctgta gtcccagcta ctcgggaggc tgatgaggga 33960
gaatcgcttg aacccaggag gcagaggttg caatgagccg agaccgtgcc attggactcc 34020
agcctgggtg acagagggag actccgtctc aaaaaacaaa caaacaaaaa acaatatgac 34080
aaatagagaa tttatatgct tctgtgaaga acagaattcc tattttacag atgtctagag 34140
gtatcctaac ctgccagtaa tgttgcttta gaatttagca gaatttgaaa aatctaaata 34200
tggtagaaaa ttaattatat atctcatgtt aaaatttata aaataaatta ttacagcgtt 34260
aacttaccaa taagcagctt ttaaattcta ggctttaaaa gtatcctgct tacataataa 34320
acataataaa gtttcaaaga tgagcaaatt aacttttcag caaaagcttt acttgagtgt 34380
atcttggctt ctttttgac agttgtaacc ttaatgttac agtaatgttt tctttttctg 34440
ggaatcagat aatcttctgt ttggaaaaat attttttggtg aacattttat tttttaatgg 34500
aaacttgtat tatgtgatac gcaagtgttc aaacaattta taagagctaa ccatcaccac 34560
ccacatataa gattatacag gaatggagga attttggctg acttactgta tataattatt 34620
gagccaacgt agatggcaga ctctaccact tatgatttag ggttttgaaa cagtattttta 34680
aagtacaaat aatctcaaaa ttggtaatct ataaagcata ttaattattg tattgacgaa 34740
ctaaaaatag atttaacctt cctccatta taaggatgca tccattatat aggttctgta 34800
caaaattgcc aagcttactt ttctcttttt cttttttttac aacaaatgt atttaaattt 34860
tttgatagga aaagccatta gctttccgta aactgttgca caatcactgg aaatgctgag 34920
tgagagtctt tctgaaaact gtagaaggct aaagataatg aaaagtgtat ctcttcattg 34980
tcaagtcctt tgagaatctg ataggctcta tctagctgca ccctgaagag acaagattaa 35040
gttccaggcg ctggacacag aggaacaggc tcctaactgg agggctttcc acggacaaca 35100
gagcgcctgg cagtctcttc gagattaaat ctaggctgtg tgggagggtg ggccccccag 35160
agcttcattc cactttgtgt gggtcctgag agtagggtgt ttgcttaaat ggcaagaaaa 35220
tggcccttt tcctgataat tactaatatc tgccatgtaa atttctttat aaatccctga 35280
aagaaaacaa cctatattag aaatcagctc ttacttctga caagcaatgg agctttctct 35340
agagcgcttt acaggaaata tctcagctga ctttctgaac tggtactctc tgagagccag 35400
ccggcccttg actgatagcc ctggataagg aaggccagat aagattcttt gaagactctc 35460
agctaaattc agagccccaa atcctacata catttggcta ctctgtagta gtggattggt 35520
ggccttattt tacaggctag tcagttaagg tttgagatgc gcttagttgc tctgcttgtg 35580
tggaatagaa aagggggatt gtaacattaa tacagggccg gtcgggattt tagggtgcag 35640
gtaaggatag gtcatangga gaatgaagat tctagcaggt tggtttttttg ttctctctac 35700
agtgggaata atgtaagaag cagatagttt gttgccccca actctttttc catgttctct 35760
tctatcaaaa tgatctgtac aaaaaagttc tgtttataaa aattttagtc tttcatcttt 35820
gcagtctgtt atcatcttta tgaattttttt gactcttcca ccttcctggc accacaaggc 35880
tagcattgct atatttatta aagattcaga tttggaattt tgtcctctta tcactacttc 35940
ctctgccatt tgttagctct ggttcttatt gtatcttaca tttgaaaacc tttgaagctt 36000
atggggtata tcaattcttt attttctcaa cttttttatta tctaagtacc ctcaattatc 36060
aagttgttta aaaataaat aaaatacata acagaaattg ttctgttacg cactaataaa 36120
ttgatcattt ataaaagtag atccaacccc aaatccctct cctttaaca cagaccatct 36180
gttattatcc accatccttt agtttggcag ggtcagttta tcaatgattt ttggatgttt 36240
taaaccacat gacacaaatg cagcataaag tgaacttgtt aatcatgcag aagttggagg 36300
gtttcttgaa gtcagagaag gtgatggtgg agaacttgaa ttgcatgaac tgtaattgat 36360
ttgtgagcac ctcgtggagt tagctaatac agtaagaatg atgatgtgac agatgtattt 36420
aaaaaatgaa tttgcatatt aggattgtca gaggcctttg gggaaattaa tgaggttctc 36480
aaatactaca aaaaaggacc atcttttcat aaaaggtgat atgatgtcat atatcatggc 36540
accatatatt tttgttaaaa attagcactg aaaataatttt taattttaat aatttgtgca 36600
tctttccatt atgataaaaa ttgtttttaaa ttaaaatgac acccttactt aattttttaat 36660
ttcttttta tggaaaaaaa gtgaatcttt ttttcataat ttattctgaa gtattggtac 36720
```

-18-

```
ctgggtatat cagtcagacc ttttgcagga actggaaact atgctaggtg catgaaacag 36780
aagtgtttac tataaaatca ggtgttttat gggaagtttg gaaggtttga agcatctgtg 36840
tctaaggtga cacttttcaa agaaatcaaa tacaactgga ttatcagggg agttaaaact 36900
tttgaggcca ccattgcaat ttgtagagtg gacatttgaa tgttgttgta gagaagcttt 36960
gttttcagac cttaactgct aacagagcag tccagacacg ggaatatgat ccttacctca 37020
ttcgactttc taaatctttg tgtggttgca tctaattgga tgaatctagc tgcaagggag 37080
tctgcaaatg tagttttttct ttgtatttct gtaaacggga aggggaggat ggagattgcg 37140
agagccaatc caaggtaacc aaaagaaaat ttaagtggat tctacttaag agatcttttt 37200
ctggtactgg gtatcatgtg taatgatgca gttacatttt tgactggcta tgtaaattag 37260
aaaggttaaa aaaaatccca ggaatcttca cagtcactag tattatgacc tctgttacca 37320
ctaacttggg tgccatgtgg aactagctgg cctgtgatgt ggggcagaaa tccatgtaga 37380
aagaggtgta ataattgtta ctatgctagg ccattattag gatcattttc tttttattac 37440
tattgttgtt ttttatattt ttagaggcag agtctcactc tgtctcccag gctggactcc 37500
tgggctcaag tgctcctcca gtctcagcct ctcaagtagc taggactaca ggcacacacc 37560
accacacctg gctatttatt ttccattttt gttgagatga agtcttgtta tgttgcccat 37620
gctggtctcg aactcctggc ttcaagtgat cctcccactt cagcctcgga aagtgctggg 37680
attacaggca tgaccactgt gcctcatcag aatcactttt tcctctgtgt gtgtatgtgt 37740
ttatataata atatcctttta attttatgct attttcatta tattcaaatt tatgatgaaa 37800
cagagctggc ataggcaata acatttacaa actgagtttt ggaaaactcc tccagaatct 37860
acttcttaca tgctatttat caactaacct ttttatataa tcatagttca tgaaaaaaga 37920
aaaccctagt tatgtaccag cataactcaa gaaatacctt ttaatgatta aaggtcacct 37980
ttaagagtat gctggaaaaa cgaaaatgat ctgtgcattt tactaatcca gtcagaaata 38040
ctaattgtac tccttattaa gataaatttg ggtgctggtt ttttggcttc tggtttcttc 38100
ttgtactcac tatcatcata caattggaga atggaattat gtatagtggc catacaggat 38160
gttaaaaatg gttatgttcc attgtgaaag acagtgtggc aattcctaga cctaggaaca 38220
gaaatagcat ttgacccagc aaccccatta ctggatatgt acccaaagga gtatacatca 38280
ttctgttaca aagatacatt cacacatatg ttcattgcag cactagtcat aatagcaaag 38340
acgtggagtc aacccagttg cccatcaatg ataagctgga taaggaaaat gtggatatat 38400
acaccatgga atactatgca gacacaaaaa gcaatgcgat catgtccttt gcagcgacat 38460
ggatggagct ggaagccgtt atcctcagca aactaacaca ggaacagaaa atcaaacacc 38520
acatgttctc acttataagt ggaagctgaa cagtgagaac acatagacac aggtgggggaa 38580
caaggcacac tgggggccttt taggaggagt atggggaggg agagcatcag gataagcagc 38640
taatgcatgc tgggcataat acctaggtga tgggttgatg ggtgcagcaa accaccatgg 38700
cccacgttga cctatggaac aaacctgcat gtcctgcaca tgtatcccag gacttaaaat 38760
aaaattaaat aataaaaaaa ggttattttt tttcccacta tgggctactt aaaaactaca 38820
tggcaatata gttttttcccc acaaaataca taacacaaaa tacacaaaat acaaactgtg 38880
cattacaaat actttagtct tttgtgtaga tgttggtgaa aaataatgag ctttttaaggg 38940
gagagtgtgt atgtgtgtgt atatatgcct gaataacata taaattctca aaaatcttgc 39000
ctatgaaagt gtgttacatt cctttattag ttgaaaagtc aattattttt cagtttcctt 39060
tcatagtaag ggctacttct ttttttttta acaatagaaa attaaggaaa tcaaccctt 39120
gtaggggttg cgtttctaaa tcactggttg tctccagctg tcagcaaaca tcatgattga 39180
ccttcagcaa gctaaatgtt gtaccaaaag atatagctcc cagggaagaa gtcacagagg 39240
ttaggattca gactactaaa tttaccaggg ggcagtggcg tgtgcctata gtcctagcta 39300
ctcgggttgc tgacctggga gggtggctta agcccaccca gttcaggccc agccggcgca 39360
cccccccaga ctctcctgcg gaaaaaagaa ggactttcaa accacatctc taacctggcg 39420
cggcgctnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 39480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntat gattgtttga 39540
tgcactctac accccgtcat caacatgagg tatttctcct aatgcgatcc ctcctccagc 39600
ccccccaccc caggacaggc cccggtgtgt gatgttctgc tccatgtgtc catgtgttct 39660
cattgttcaa ctctcactta tgagtgagaa catgcagtat ttggttttct gtttgtgtgt 39720
tagtttgctg agaatgatgg tttccagctt catccatgtc tctgcaaagg acacgaactc 39780
atccttttt atggctgcat tgtattccat ggtgtatatg tgccacattt tctttatcca 39840
gcctatcatt gatgggcatt ttgggtggtt ccaagtcttt gctattgtga atagtctgc 39900
aataaacata tgtgtgcatg cgtctttata gtagaatgat ttataatcct ttgagtatat 39960
acccagtaat gggattgctg ggtcaaatgg tatttctggt tctagatcct tgaggaatca 40020
ccacactgtc ttccacaatg gttgaactaa tttacactcc caccaacagt gtaaaagtgt 40080
tcctatttct ccacatcctc tccagcatct gttatttccc aacttttttaa tgatcgccat 40140
tctgactggc atgagatggt atctcattgt gttttttgatt tgcatttctc taatgaccag 40200
tgatgatgag ctttttttca tatgtttatt ggccacataa atgtcttctt ttgagaagtg 40260
```

-19-

```
tctgttcata tcctttgccc actttttgat gggattgttt gtttgttttt tttcttgtaa 40320
atttgtttaa gttctttgta gattctggta gattctggat attagcccct ttgtcagatg 40380
gatagattgc aaaaattttc tcccattctg tcggttgcct gttcactctg atgatagttt 40440
gttttgctgt gcagatgctc tttaattaga tcccgtttgt caattttggc ttttgttgcc 40500
attgctttttg gtgtttttaat catgaagact ttgcccatgc ctatgtcctg aatggtattg 40560
cctaggtttt cttctaggga cttttttttt ttttttttta atgaagtctt gctctgtcac 40620
ccaggttgga gtgcagtggc gcaatctcag ctcactacaa gctctgcctc ctgggttcaa 40680
gcaattctcc tgcctcaact tcccaagtag ctgggattat aggtgcccac caacacaccc 40740
agctaatttt tttttttttt ttgtattttt agtagagatg gggtttcact atgatggcca 40800
ggctggtctc gaactcctgg cctcaagtca cccacctgcc tcggcaggtt ttaggtcttg 40860
tgtttaagtc tttaatccat cttgagttaa ttttcatata ggatgtaagg aaaggggttc 40920
agtttcagtt ttctgcatat ggctgccagt tttcccaaca ccatttatta aatagggact 40980
cctttccca ttgcttgttt ttgtcaggtt tgtcaaaggt cagatggttg tagatgtgta 41040
acattatttc tgaggcctct gctctgttcc attggtctat atatctgttt tggtaccagt 41100
accatgctgt tttggttact gtagccttgt agtagagttt gaagtcaggt ggtgtgatgc 41160
ttccagcttt gttctttttg cttaggatga cttggctata tgggctcttt tatggttcta 41220
tatgaaattt aaagtagttt ttttttttaaa ttctgtgaag gaagtcaatg gtagcttgat 41280
ggggggtagca ttgaacctat aaattacttt gtgcactatg gccattttca caatattgat 41340
tcttcctatc catgagcatg gaatgttttt ccatttgttt gtgacctctc ttgtttcctt 41400
gagcagtggt ttgcagttct ccttgaagag gttcttcaca tcccttgtaa gttttattcc 41460
taggtatttt attctctttg tagcaattgt gaatgggagt tcactcatga tttggctctc 41520
tgtttgtcta ttattggtgt ataggaatgt ttgtgatttt tgcacattga tttttgtatcc 41580
tgagactttg ctgaaggtgc ttatcagctt aaggagattt ggggctgaga cgatgggatt 41640
ttctaaatat acaatcatgt catctgcaaa cggagacaat ttgacttcct atttgaatac 41700
cctttatttc tttctttttgc ctgattgccc tggccagaac ttttaatact gtgttgaata 41760
ggagtggtga gagagggcat ccttgtcttg tgccagtttt caaaaggaat gcttccatct 41820
tctgcccatt cagtatgata ttggctgtgg gtttgtcata aatagctttt attattttga 41880
gatacattcc atcaatacct agtttattga gagctttttag cataaagcgg tgctgaattt 41940
tattgaaggc cttttctgca tctgttgaga taatcatctg gtttttttgca ctggttctgt 42000
ttatgtgatg ggttacgttt ttgatttatg tatgttgaac cagccttgca tcccagggat 42060
taagcaaatt tgatcatggt ggataagctt tttgatttgc tgctggattc ggtttgccat 42120
tattttattg aggattttcg catcgatgtt cattagggat attggcctga aattttttttg 42180
ttttgttttg tctctgccag gtttttggtat caggatgatg ctggcctcac aaaatgagtt 42240
agggcagagt ccctcttttt ctactgtttg gaaccgtttc ggaaggaatg gtaccagctg 42300
gtctttgtac ctctggtaaa attcggctgt gaatctgtct agtcctgggc ttttttttggt 42360
tggtaggcta gcaattactg cctcgttttc agaacttgtt attggtttat tcagggatat 42420
gacttcttcc ttgtttggac ttgagagggt gtatgtgtcc aagaatttat ccatttcttc 42480
tagattttct agtttatttg ggtagaggtg tttatagtat tctctgatgg tagtttgtat 42540
ttctgtggga tcagtggtga tatccccttt atcatttttt attgtgtcta tttgtttctt 42600
atctcttttc ttctttatta gtctggctag tggtctattt tgttaatctt ttaaaaaaca 42660
ccagctcctg gattcgttga tttttttgaa gggctttcca tgtctctatc tccttcagtt 42720
ctgctctgat cttagttatt tcttatcttc tgctagcttt tgggtttgtt ggctcttgct 42780
tctctagttc ttttaatttt gatgttagag tgttgatttt agatctttcc tgctttctcc 42840
tgtagacatt tagtgctata aatttccctc ttaattactg ctttagctgt gtcccagaga 42900
ttctggtacg ttgtatcttt gttctcattg gtttcaaaga acttatttat ttctggcttg 42960
atttcgttat ttacccagta gtcgttcagg agcaggttgt tcagtttcta tgtagttatg 43020
tggctttgac tgagattctt aatcctgagt tgtaatttga ttgtactgtg gtctgagaga 43080
ctgtttgtta tgatttccat tcttttgcat ttgctgagga gtgttttact tccagttatg 43140
tgttcaattt tagaataagt gcgatgtggt gctgagaaga atgtatattc tgttgatttg 43200
gggtggagag ttctgtagat gtctattagg tccacttggt cctaatagga ccaaagattt 43260
caagttctga atatccttgt taattttctg tctcgttgat ctgtcaaatg ttgacagtgg 43320
ggtgttaaaa tctcccacta ttattgtgtg ggagtctaag tcttggcatg agtcttaaac 43380
atactcttac tgaaacacca ggggttcagt ctagttcgtg ctgctcgccg cacagaaagc 43440
caatcactga gatgacaagt attgccaagg aagaaggctt taatcatttg ctgcagccaa 43500
ggagatggga gctcagtctc aaatccatct ccctggctga ctaaaattag aggtctatat 43560
agtggggggag aaatgtagca atgtgtaaga aaacaagaac tagcatgcag caaggagtca 43620
atcatggtga atgaggggtc tggtgtggtg agctggtgag ttttagttct ttgatactta 43680
tttagaggcc tgaaggtgct ttttggagga aggaactcag ataaaacaaa tataagtttc 43740
aagcattaag accaaatgat caatttctat gttcatcaaa aagatctgtc tatgggacta 43800
```

```
ttgggtcagt ttcaatacct ctgttaaaac actgagcaaa caataagcta ttctgacaca 43860
ggggcaattc ctaagaaacg aggcttaaaa ataaatattgc agtcatctct ggcagtctga 43920
aagctgtgta catacccaag gctgtaccct cacaggagca actggagagg gaaaagccca 43980
gtggctagtt tccagatgaa catggtagaa aaaattggta aattccctga atgtgatagc 44040
agactccaag gcacccctca gccccagtgg ttaagggtaa aaccctaagg gcccaggggc 44100
cttaagaata atctttcact gataaatggc tcatgcccat tcaggggtga cccataggta 44160
gccaggctga aagattaaaa acgtgaagga aaaatgtgtg caggaatgtc aggctgctca 44220
ctgagccaga aacagatttc actgaatgag cctagtgaag taaccaagta aataaatagg 44280
caaaccagaa acacaagaag ctctgggggca gggaagggaa aaatcaatat ctggaattga 44340
taaaatataa tgcgtgaaat gtctagtttt caacaacaaa ttcaagtcat gtaaagaaca 44400
ggaaagagtg gcctatacac aggaaaacaa acaggcaaca gaaacattat tcaaaaggac 44460
ccagatgtta gacttaacaa agaactcaac gcacccatta aaaatatctt caaagaactc 44520
caggcaacta tttgtaagaa atcaaagaag gtatggggac actgtcaagt agggaatatc 44580
aataaataga ttgacattat aaaataattc tagagttaaa agtacaataa ccaaaatggg 44640
aaaaaattac tagatgattt aacgatcgat tagtggtgac agaagaaaat aatcagcaga 44700
cttgaacata gatcaataga gatggcacaa tctgaagaac atacacagaa aagaatgaaa 44760
aaaactgaca gcctcagaaa aatggggggta caccactaag ggaccagtgt atgtgaacta 44820
tatccaaagg agaggagaga gaaaaggggc agaaaaataa ttgaatgtat gtggctgaaa 44880
acttctcaac tttatgaaaa acattaatac acacatccaa gaagttcaat gaattcctca 44940
tagataaaca taaagagatc cacacccct atatcatagt caaattgttg aaagctaaca 45000
attaaaaagt atgaatgcag tgaaagaaaa acaacacatc tcatacaagg gaacccaat 45060
aatactaaca gcagacttat cagaattaat gaagaccaga aggcagtagg atgacattca 45120
aagtactgaa agcgaaatgt tcaaccagtc atcttacatc cagtgagagt ttttctaaaa 45180
tggagacaaa agacagacat ttccagataa acaaaaactg agagaatttg ttgctaaaag 45240
acctggcttt aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 45300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntcaaaaa 45360
aaaaaaaaaa aaaaaaaaaa aaaatagaaa aagaaaaaga aaaattgcct cattgtagta 45420
aaaaaattaa gtgcatgtca aatacaatac taaagaaaaa gtttttcccc tataatatat 45480
acatatatat tttactttgt atccatgaaa attaaaaaat aaagggcagt ggcagcggag 45540
atggaggagg gaggatggga caagacgctg gtgcagtccc agcagccccc agcggcggcc 45600
ctcagcggca tggatgagaa gccaagcgca aggagcggcg ggatgcgcgg gacaaggaca 45660
aagaacagga gctgtctgag gaagataaac agcttcaaga tgaactggag atgcttgtgg 45720
aatgactcgg ggagaaggac acatccctgt atcgaccagc gctggaggaa atgcgaaggc 45780
agattcgttc ttctacaact tccatgactt tggtgaccaa gtctctcaaa tgtctgcgtc 45840
cacactatgg caaactgaag gaaatgtatg agaacatggc ccctggggag aatgagcatt 45900
ttgctgctga catcatctct gttttggcca tgaccatgag tggggagtgc gagtgcctca 45960
agtatcggct agtaggctcc cagaaggaat tggcatcatg gagtcatgag tatatcaggc 46020
acctggcagg agaagtggct aaggagtggc aggagctgga tgatgcagaa aaggtccagc 46080
aggagccact gctcactctg gtgaaggaaa tcgtccccta caacatggtc cacgacgcag 46140
agcatgaggc ctgtgacctt atggaaattg agcaggtgga catgctggag aaggacattg 46200
atgagaatgc atacacaaag gtctgccttt atctcaccag ttgtgtgaat tatgtgtctg 46260
agcctgagaa ctcagtccta ctgcgttgtg ccctgggtgt gttctgaaag tttagccgct 46320
ttcctaaagc tctgagattg gcactgatgc gcaatgacat ggagctggta gaagacatct 46380
tcacatcctg cgaggatgtg gtagtacaga aacagatggc attcatgcta ggctggcatg 46440
gggtgttcct ggagctgagt gaagatgtca aggagtatga gcacctgaca gagatcatgt 46500
ccaatgtaca gctcaacagc aacttcttgg ccttagctcg ggagctggac atcatggagc 46560
ccaaggtgcc tgatgacatc tacaaaaccc acctagagaa caacaggttt gggggcagtg 46620
gctctcaggt ggactctgcc cgcatgaacc tggcctcctc ttttgtgagt ggctttgtga 46680
atgcagcttt tgtttaagac aagctgctaa cgatgatggc aacaaatggc tttacaagaa 46740
caaggaccac ggaatgttga gtgcagctgc atctgttggg atgctgctgc tgtgggatgt 46800
ggatggtggc ctcattcaga ttgagaagta acctgtactc ctttgaggac tacattaagt 46860
caggaattct tcttgcctgt ggcatagtga actctggggt ctggaatgag tgtgtccctg 46920
ctctgggact gctttcagac tatgttctcc acaacagcaa caccatgaga cttggttcca 46980
tctttgggct aggcttggcc tacgctggct caaatcatga agatgtccta acactgctgc 47040
tgcctgtgat gggagattca aagtccagca tggaggtggc aggtgaca gctctagcct 47100
gtggaatgat agcagtgggg tcctgcaatg gagatgtaac ttccactatc cttcagacca 47160
tcaggagaa gtactgagct caaggactct tatgctcgtt ggcttcctct tggactgggt 47220
ctcaatcacc tggggaaggg tgaggccatc gaggcaatcc tggctgcact ggaggttgca 47280
tcagagccat tccgcagttt tgccaacaca ctggtagatg tgtgtgcata ggcaggctct 47340
```

-21-

```
gggaatgtgc tgaaggtgca gcagctgctc cacgtttgca gcgaacactt tgactccaaa 47400
gagaaggagg aagacaaagg caagaaggaa aagaaggaca aggacaaaaa ggaaacccct 47460
gctgacatgg gagcacatca gggagtggct gttctgggga ttgcccttat tgctgtgggg 47520
gagattggtg cagagacggc actatgaacc tttggccact tgctgagata tggggagcct 47580
gcactccgga gggctgtacc tttagcactg gccctcatct ctgtttcaaa tcaacatcct 47640
ggatacccta agcaaattat ctcatgatgc tgatccagaa gtttcctata actccatttt 47700
tgccatgggc atggtgggca gtggtaccaa taatgcccgt ctggctgcaa tgttgcgcca 47760
gttagctcaa tatcatgcca aggaccccaa cgacctcttc atggtgcact tggcacaggg 47820
cctgacacat ttagggaagg gtacacttac cctctgcccc taccacagtg actggcagct 47880
tatgagtcca gtggccatgg ctgggctgct caccgtgcct ctctctttcc tggatgttcg 47940
aaacattatt ctaggcaaat cacactatgt attgtatggg ctggtggctg ccatgcggcc 48000
ccgaatgctg gttacgtttg atgaggagct gaggccattg ccagtgtctg tccatgtagg 48060
ccaggcagtg gatgtggtgg gccaggctgg caagcctaag accatcacag ggttccagac 48120
acatacaacc ccagtgtcgt tggcccacgg ggaacgggca gaattggcca ctgaggagtt 48180
tcttcctgtt acccccattc tggaaagttt tgttatcctt cggaagaacc ccaattatga 48240
tctctaagtg accaccaggg gctctgaact gcagctgatg tatcagtggg ccatgcatcc 48300
tgctgccaag ggtggacaca gctgcagact tccggggggaa ttgttgcctc ctgctctttt 48360
gttactgagt gagataaggt tgttcaataa agacctttat cccccccccaa aaaatataaa 48420
taaataaata aataaatatg aaaaggtttt ctccacttgt cctatgaccc tgggaccatg 48480
gctcagaagt cttcttgtcc atccatcttc agtaaatata atcaaaatac aattaatatt 48540
taccaaaacc tgaggtaact ttcagattca aaatagctcg gttcattaca gtctttaatc 48600
tcagttatat tttggctttg cactagcagc tttattttt tcaaagacac cctcttttca 48660
tgctcctgac tgggtcagca ggagcctcaa tatagcctaa ctgggaccat gagaagctca 48720
atatcagaaa acactgatga caatgaagcc gccgtactcc tacctacagg cttaaatgca 48780
gcacccttgt aacttcaaag ctacagggag actctgatat atttctgatc tgcatccaaa 48840
gtgcattcca tcagtctgtg atcaaaactg tcctcctctc atgtagcgac ttcagaatga 48900
atcagtgttg ccaagttttt cacacatagc atcatgggaa ctaagtctaa attaccttag 48960
aaattgtggt tccaattcag atttggcttt gagcatctgg ttcccccagg ccgaatgtcc 49020
caactcaacc acccaacttc tgaggacttc cctcagaagc accatgtgag ccctgtccaa 49080
cgtgccacat agacacattc tctcctgtcc taagagtaaa tagtgaaatc cagtctcagc 49140
aactatcctg tcccccttcat ttcattgcac aaaatgcaaa cataggagac acttaaaatt 49200
cttgttttca aagttctcat ttcaccatga tgtttaaagt atatggctgg gcgtggtggc 49260
tcacgcctgt aatcccagca cttcgggagg tcaaggtggg cagattacct gaggtcagga 49320
gttcaagacc atcctggcca acatggtgaa accccatctc tactaaaaat ataaaaaaag 49380
tagctgtgtg tggtggcggg cacctgtaat cccagctact cgggaggctg aggtaggaga 49440
atcactagaa ccgtgggggc agagtttgca gggggaggag tttgcagtga gccgagatcg 49500
tgccattgca ctccaaactg gatgacagag tgagactcca tcccaaaaat aaataaataa 49560
ataaatanaa taccgttgcc tgttattttt catgcagatt tttcatgcag attactcatg 49620
ctaagcttca ctcttgtctt aggctgtctt ccatctttga atccctagta ttttcttaaa 49680
agtatccctg acatctttt caaagatctc taaaaatgtc caggattctt cataacacat 49740
tcacctgacc cagaagtcag gtaattagtt tgttaaagaa atacttgtta cccaactaca 49800
tttaacaaat gtacagggcc attaactacc aatagtatga ggaaagttag actctgttgt 49860
aaatgaaaga aattttcctt ttctaataga agtcagtgca gcatggggaa aaagcaaact 49920
gccctgaaca gcaggagact aagattctgg ctctgtcaaa gctattttgg acagaaaagt 49980
cacttcacct tttcagctca aatgtcttca cttgccaatt taagagaact gggctatatt 50040
aaatacttgt cttcttcagt tttggtgttt ttattattcc ctcataaaac agcaaattag 50100
tcaagtatgt acactgtaca gacacatggc ttgaaataat taaaagagga aaattcttcc 50160
catatcctgg gataggctat gtttgatagg caaatcagga aataccttga aaacttctgc 50220
aaaatggaag agacttccca cccaccccccc acagaattta acctggacat gagctgttct 50280
acatataaaa tcctgtaaat atcatgaagt aaaattacaa agcacagaaa gagaagtcac 50340
tctcaggaaa acagcaggcc ccagcagtca ttttacagac tatatatcca aaggaggaaa 50400
cagttttgtg ttccaacctg cgtggatctg tgttgtggca agttagggtc agagatagcc 50460
agaaatgcaa aaatgcagtt gaaggttttg tgttggtaat ggaacttcaa agcaaggaag 50520
aaaatgaacg taattttctt gtgcttcagt gtattctgca aaaggaaaat aaaaactatc 50580
tcaccaggct tgtaatgaag attaaaacag ttaataattg taaagtgctt aaaacagagc 50640
ctggtacata gaaagcttaa tgtgttttta aatactgaaa acagtttgtt tgtttttaa 50700
agcaccagta caaaaaaaac tgacaatgac ctgcaaactg gttacacact ggaatgggaa 50760
ccatgattag caaatcattc acacccagag gaagaaagaa agtgagagta agccaatgca 50820
agcactcacc ttcacgcaat cttagccagc agaccactca ccaggccaca ccctccagca 50880
```

-22-

```
gcttaccaac tgaaaccaat ttatctaccc aataatacct gtaggcatcc tatccgaacc 50940
ccctcagcct ccagaccttg agaatcttgg ctcccctcct ttctaccatt caccctctct 51000
ggtcttctga ctttgtagcc tactctttaa accacccctt taggctgata ccttcaattc 51060
ccaccctcac taaccttccg atacatctct ctgagcaaaa agcccaagtg cacagagcta 51120
atcacacacg tggactgact tcacctccca tcttcccacc acaccctaca cccctcgtct 51180
ccaaacctca gcctgctgaa atctgggcag cgctctcagc gctccactgg aattcctctc 51240
tactagggta ttatcagtag ctttcagtct ttatcttgat ttcttggcaa cactgaatat 51300
cacttaacac tccttctttc tttttaaaaa atatcttgtt tttttgtctt tatcattctc 51360
tttgtagctt tttttcccctt attgggtaag tatttatcta tacgtcagtc tcttcttgct 51420
tcccattcta ctggcacttt ccagagcata atggcttcaa gtatcatcta cacactgaag 51480
agtcgtcaat ctctcttctc ctaggctctc tctcctgacc tcagatacaa aaaactaatg 51540
gccttttgt atatatttaa agaggtatcc tcaaattcag taggattta attgaaccaa 51600
tcatccccac aacctgctcc tcattgtgaa ttttacacac agtgtgaatt gcatcaccct 51660
ctatctaccc tagtgctcag accagaaacc tggacattct ccttgtctct gcccactccc 51720
ttacctttac atgagcaacc aaatccccaa ggcttctcac gtctaccctc taaggcagca 51780
cttcttaaag tgtggtcccc gaccggcatc attggcatca cctgggaagt tgttagaaat 51840
gcaaatgctc tgatctcaac tcagaccagc tgaatcagaa acttgggggt ggggccagca 51900
atctgtgttg taancaagct tcgggggatt ctgactcttg gagtttgaga ttagtaggag 51960
taacaatatt aatccaagta taattagaat ctgccttta tttaatccca aatttctttc 52020
ccaaatataa gtaagattat tttattaatt aactattgtg gtattatgag aagaaaatta 52080
agatgtatga tttgttaaag gaaaagctcc aattcttgta ctagtgcaac tccctggata 52140
cttggaagtc ctttaaaagg gggaaaaaca aattgtgtga ccacatgcaa tttttttttg 52200
ttttttgaga cagagtctcg ctctgttgcc caggctggag tacagtgaca taatcttggc 52260
tcactgcaac cgccagctcc ttggttcaag cgattctctt gcctcagcct cccaagtagc 52320
tgggactaca ggcatgcacc accatgcctg actaatgttt gtattttttt tttttagtag 52380
agatgaggtt tcaccaattt ggccaggctg gtcttgaact cctgacctta agtgatccgc 52440
ccgcctcagc ctcccaaagt gctgggatta cagccatgag ccaccgtgct cggcccacat 52500
gtaatacttt ttaaaaataa aaggatttc tactacctaa ctccttcata gttgagggca 52560
ctgttctctc ctggattgct gcaacggttt cctcagggtc ttccagcatc ctaaccacaa 52620
acacagcaca cccctcagtc cctactcctc taacacccag aatgctctct ctaaaacacg 52680
cgactgacca cgtcatactc ctccacctaa caccctccac cggcttccta ctgctcctga 52740
gaataggagtt cacttcttaa acgtttcttc cagaagcctt cacaaatgcc tctgggtccc 52800
aggcagcatt tctcttttct ttttactttt ttttttttttt ttttttttga gatggagtct 52860
tgctctatca cccaggctgg agtgcagtgg tgtgatctca gctcactgca acctctgcct 52920
cccggattca agggattctc ctgcctcagc gcacgaat ccatcacata gtttcgctcg 52980
ggncagaatt cggnaatacc atttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 53040
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 53100
nnnncatgcg gtctcggaca aagccatgtg atggatcttt ggtgtatttt caactctgga 53160
tttttttttt aattggattt tttttttttt tgtcaaggtc atcctaaatg tttcagcttt 53220
ttctaagaaa ggaaaagtta atataaataa gaaattgagt ttctaattct tttaaactta 53280
tcccttttaaa gaaaaatatc aaaaagccta agaagttccc ttggttttttt gttagcaaat 53340
tcctgtgctg tatttagtgt tgtgttatgg cagaggtgtg tgtgcacatg gctctcaggg 53400
actgcctaca gcagaggaca agtgaacttt ggagtcggac ttagctgaca ggaaatccca 53460
gcctgcctct ctggctttgg tctttcagcc attttttcata ctgaacatca ttcatttctg 53520
tgactcaata cataatagtt attatttta catgattctc aattcagaca gtaagtacaa 53580
tgagggaaaa gaataaccat atgcaaagct catggctttg gtacaacccc aagtattgca 53640
ttctttcttc ccatagaagt ataatcaaaa agtccaacta tggaacaatg tcattaaaaa 53700
tataatctaa gctcaaccca agttttttgc tgaacttgta gtaaaagaca ttataattca 53760
tttgaccttg atctaataat ttatgtgtga tttcaaaaga catatgaggt atttcttttt 53820
ataaaaagct ctaggtaatg aacttatatt ttaaattaaa acaaattctc atattaaatt 53880
tctgagagta ggtttttatg aaagcctagt atctcacatg tacttttctc cactacaagg 53940
ctacaattga tgaaaaggtt acacaggctc actggagcct actttcttct caaatttcta 54000
attctcaatg actttacatt tcaatgaaata ccattcacta aacctcccaa cagcatttag 54060
tacatttta atgtctcaat aaatataata aacaggtctt aaaattctat atcccatgtg 54120
aggaaaacac tttaaaaaaa aaggtttaaa aaaatggggg catgaagcaa tttctaagca 54180
agccttataa gcttgagttt cattaaaaaa aaaaaaaaat cagacactga aaagcctagt 54240
ggggaaaaac aacattgctc acactgagcc taattttttga gactattaca aaaataaaca 54300
aatgatgatg aatgaacttt cttatggtaa ttaatagga agcgaaaaag cctgtgtctc 54360
caagaatgaa gccagactct atgaaaggga cctggagttt gtaatgtaca acttgttcca 54420
```

-23-

```
taggaaattt cataagaaaa ccatgattca gtggcaaccc caacaggata aaagaagtgc 54480
aaatgtgtag gctatccaaa tacatgcaaa cagagtcaca aaaaaaaaaa aaaaaaaacc 54540
atcgtggaaa gttcctaggg gggtcaaagg gttatttgca gatttttaaa gaagtgttct 54600
tgtgctttaa ttatttattt aacatatcca tcatctcaaa tattttaaac cctcttgttt 54660
agctattttg aaatatacaa tacattatta ttaaccatag tcaccatgct gtgcaataga 54720
ccagcaggac ttattcctcc tatctaaatg agactttgta cccactgacc aagtctcccc 54780
tttccccatc catcctgtcc cctcagcctc tagtaaccac cactctactt tctacctcta 54840
ttactttgac tttttttagat tccacatata aatgtgatcg tagagatttt gtctctctgt 54900
ccctggctta tttcacttaa cataatgtct tctaggtttg tccatgttgt tacaaatgac 54960
agaattacct agtttttttaa ttgtatttca ttgtgtatat atatattata tattttaatg 55020
caatcatctg ttgatggaca cttaggttgt ttccatttca tggctcttgt gaataataat 55080
acaattagct ttgtgctgtg gcagttatca aagccaatga ggtgctgttg cagtactact 55140
gaagccaatg aggtttatcc gaggtgtgat tattggtaat aatgctgcaa tgaacataga 55200
agtatagaca tctcttagac atactgaagt cattcccttt gggtatatac ccagtagtga 55260
aattgctgga tgatgtggaa attctattgt tattttttga gaaatcttca cactgttttc 55320
cacaatggct atattaactt acattccacc aacagtatgg aagagttctc ttttccccac 55380
atccttggca aactcgtttc atgataaaaa ctcccaacaa attgggtata gacagaatgt 55440
ttcttaatat gataaaggcc atatatgata agccaagagc taacaggata ctcaatggtg 55500
aaaagttgaa agcttttctt ctaagatcag aaacaagaca aggacgccta ctctcaccac 55560
atctgttcaa catagtactg gacatcctag ccagagcaat taggcaagaa aaataaataa 55620
aaggcattca gatagaaaag gatgaaatga aattgcctct gcttgctgat gacataatct 55680
tgtatataga aaatcctaca gactctatca aaaaactgtt agaactgata aattcaatta 55740
agttgcagga tacaaaagtc gacctataaa aatcagaagc atttctatac actaacaaca 55800
gtctgaaaaa gaaaaaagaa aacagttcca tttataatag catcaaaaaa tacttaggag 55860
aaaatttaac caaggaaatg aaaaatctgt acactgaaaa caataaaaca ttgatgaaaa 55920
aaattgaaga cgacataaat aaatggaaag atatgctgtg tttatggatt ggaagactca 55980
atattgttaa aatggccata ctacctaaag caatctacag attcaatgta atcccaatca 56040
aaattccagt gtcattcttc acagaaatag aaaaaataat cctaaaattt atttgaaacc 56100
acaaaaaaaa ccaaatagcc aaagtaatct tgatcaaaaa ggacaaaacc agagaaatca 56160
cacaaccaga tttgaaaata tattacaaag ctatagtaat caaaacagta tggtggtggc 56220
ataaaaatag acacatcgtc cagtggaata gaatggagtg tccagaaata aacccagcta 56280
actacagtca attgatttgc aacaaaggtg tcaagaacac agaatgggga aaggacagcc 56340
tatttaataa aaggtgttat taaaactgta catctatata tacacaaaaa tgaaaataga 56400
tccttatttc atccttcata aaagaataaa ctcaaaagga attaaagact taaaactata 56460
aaactactcg aagaaaacac aggggttagg aaaggttcca tgacattggt caggcaatt 56520
atttctcgga tatgacccaa aagcacaggc aatgaaagta gaaaatagac aaatgggatg 56580
gcatcaaatc aaaatgcttc tgcacacaaa caaaacaata gagtgcagag acaccacaa 56640
attgggagaa aatatttgca aatcatgcac tgaataggggg ctaatatcta atatatttat 56700
atgtctaaat atataacaaa ctactcaata acagaaaggc aaataaccct attgaaaatg 56760
ggcaaaggat ctgaacagac atttctcaga agaagacata caaatggcca actgataaat 56820
gaaaaaatgc tctacatcac taatcagaga aatgtaaatt aaaaccaaaa tgagatacta 56880
tctcacacct gttagaatgg ccatcagcaa aaaaagatga aagtgttctt atactttata 56940
ttcatagcta gaaactagtt taactatcag gaaaaataaa atgtcaaagc aagaaataaa 57000
agcatctgtc tatgtctcta cttagattct actcatggcc cacaccaata ttcatttccc 57060
caacaaagct aaacttcttc ccccactacc ttcacatgct ttacagagcc aacagtaatt 57120
aatatagaat atggctgact ctcacagcac agagacaatg tttaagaagc cacacagtta 57180
ggggagattt tagcctttca agtttccaaa acaagttgtc ctccttgcag ataaaacagt 57240
ccaaacatgt agtcatgctc aacttctaag agctgttaga taattctcat acttatctgt 57300
actcaaaaat cagaaatggg tacagcccag tattaaaaag catttcagct agtttactga 57360
aaactgacgg aaaaataaaa gccaaactac aaaacaatca aatctgcctc agacatgttc 57420
ccttgaact taactcccat ttcttccctc ttatctcact cccaactcaa tcagaagtaa 57480
cagttccttt tagatatata cccagtaatg agatcactgg gtctaatgag agttgtgttt 57540
tacgtttttt tcagaaatcc ccacactgtt ctccacagtg gctgaactaa tttataccc 57600
tgccaacagt atataagtgt tccctcttct cacagcctcg ctagtatctg ttgctctgac 57660
tggtgtaaaa tggtatctca taatgatttg gatttgcatt tctctgatga ttagtggtgt 57720
agaacatttt ttcgtatgtt tgttggccac ttgtatgtct tcttttgaga agtgtgtgtt 57780
cacacctttt acccatcttt aaaaattagt ctttattaaa tgtatgtata gctcacattt 57840
acttcagtgt ttaatattat aagtgtttgg ggtctttatt taaaagtgac cagaaatatg 57900
ccatatgaac ttaactcttg tttatatcaa ttagcctata gcaaaattca ttttgttata 57960
```

-24-

```
tgttgttttta attaaagttg caggtctctt tttttttttt ttttaagttc aggggtacaa 58020
gtgcaggttt gctacatagg taaacttgtg tcatgagggt ttgttgtgca gattatttca 58080
tcacccaggt attaagccta gtacccatta gttatttttc ccgatcctct ccctcctctc 58140
accctccact ctctgaaaga ccccagtgtg ttttgttctc ctctatgtgt ccacgtgttc 58200
tcgtcattaa gctcccactt ttaagtgaga acatgcggta tttggttttc ttttcctgtg 58260
ttagtttgct aaggataatg gcctccagct ccattcatgt ccctgcaaag gacatgatct 58320
catttttttt tatggcttca tcttttgacc attttttttca tgaggctatt tattttttgc 58380
ttgttgaatt gtttaagttt cttgtattag taggtgctgg ataaaagacc tttgtggaat 58440
gtatagtttg caaatatttt ctcccatcct gtaggttgtc cgtttactct gtggagagtt 58500
tctcgtgctg tgcagaagct ctttagttta attaggttcc acttgtcaat ttttgttcct 58560
gctgcaatta cttttgagga cttagtcata aattatttgc caaagccaat atcccgaatg 58620
gtatttccta ggttttcttg tacgactctt acagtttgag gtcttacatt taactcttta 58680
atccatcttg agttaatttt tatatgtgat gaaggttttt tggggggtcca gtttcattct 58740
tctacaaatg gttggccatc tagcaccatt tattaaatag ggagtccttt ccccattgct 58800
tattttttatt gattttattg aagattggat gactgtagat gtgtggcttt attttttggat 58860
tctctattct tctccatagg tctatgtgtc ttttttgtacc agtaccatgc tgttttggtc 58920
tctgtaataa taaattgttc taccaaaaag acacatgcac tcatatgttc atcacagcac 58980
tatacacaat agcaaagatt tagaatcaac ctaggtgtgc atcaatggtg gcctggataa 59040
ggaaaacatg gtacatatat accacggaac attacacagc caaaaaacaa acaaaatcat 59100
gtcctttgca gtaacatgga tgcagctgga ggctatgtaa gtgaattaag gcaggaacag 59160
aaaagcaaac accacatgga aaagacctat ggaaaagaat agagaatcca aaaataaaaa 59220
taaagccaca catctaccgt catccaatct tcaataaaaa taagcaatgg ggaaaggact 59280
ccctatttaa taaatggtgc taggtggcta cccatttgta gaagaatgaa actggaccccc 59340
cccaaaaacc ttcaccacta gctctaactt ataactggga gctaaacatt gggtacacat 59400
ggacataaag atggcaacaa tagacactgg ggactcctag atgggggaga aagggacaaa 59460
gattgaaaaa ctaactattg agtactcttc ttagtacctg ggtgagagga tcaatcaaac 59520
ccaaaacctt agcatcatgc aatataccca gataacaaac ctacacatgt acccctgaat 59580
caaaaataat agttgattta ttaaaaaaaa aaaaaaggaa gtaacagatt ctggattcta 59640
caccctcctt ttgtcccatg gacaaagact tatcacagag tctgttcagg gcaatgaaaa 59700
aaggaaaaaa aaaaaaaaac aaaccccttt aagttatctc tcttactggt tgccctaagt 59760
ttcaaacacc tccaaagcct acagacatag gtcatttcct aagaaacaca cgaaggaaac 59820
taacattgat taagtgctta atatgggtgc aggtgtgtgt acaatcagaa ctcaatagcc 59880
ttttgaacta atgagaaaac tgaggactag agatataaag taatttgccc aggtttattc 59940
agccagccag tggcagagct gagattcaaa tctgtcttgg acagcttggg ctgccatagc 60000
aaaatatgac aaactggggt gcttaaacag aaatatattt tctcataatt ctgaaagctg 60060
ggaagtctaa gatcaaggtg ccagctgact cagtcactgg tgagaactct cttacaataa 60120
taagcatttg tgtattgaaa catatctaaa cctagaaaaa gtaatgtgat acactacaaa 60180
ctagcttggt gatagcaatt tttcaacccc attataatgt tatgggacca ccatcacata 60240
catggtctgt tgttgaccaa aatgttgtta tgtggcatat aagtgtattt cattctttgc 60300
ttggttcaat caagagcaag gaactctgtt aataattttg ttaaaagaat tttatcctca 60360
tttaattcac agatgtgaaa aaatttcata gtcaatatgc aaactgcaaa atttgtatta 60420
tatgacacat aataaatgaa gtctgataaa tttattttca actgtaaaaa tgaaacaact 60480
ggtagccaaa agtagtatgc ctgtttgcca gttttatttt tgcatatgtt gcgcattctg 60540
attttattag gtaacacatg cttcattcag taacaagcta nnnnnnnnnn nnnnnnnnnn 60600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60660
nnnnnnnnnn nnnnnnnnnn cattgggagg cttgcctcag gcgcgagcga agcatgccat 60720
ggatgggaca ccacatcttg ctctgattgc tcttgcttgg atggctgcag cctggcaggt 60780
gtgtattcac accctcccta cttccatcga tgatggtgat ccttaaaggg cccttctcaa 60840
aggtctcccg tggttctcca tgcttgcctg ttataaagct tctctaacag gagactgaag 60900
aaattagaaa tgccagcatc ctgcctctcc cagaccaaaa tcatagccat agacatagtt 60960
gtagagaaag acagagaact atggtcttct tggccacaca tgtctagagt agagcagagc 61020
tgggggtggc tggtaacaga gtgggttgtg gctcaactgt cagagactct tgctgttatg 61080
agttttagga gattttcttg aatgactgtt tctccgtttc ctgtgtgccc ttaggacaat 61140
tttcagagat tttacacaat tttttgttat aattctcacc agttaagttg ttgtttttact 61200
ggggagagga ttcaccaagt tcctcactat ctcgagaaga ctctcctcca gacagcttgc 61260
taaagtaata cttcagacag tttcaggtcc caaagtaatt ttaaagattc ataaattaac 61320
aaaaactaaa ggtgaaatac taaacatctt ccatttcgtt gtctgggcat ggtggctcac 61380
gcttctaatc ccagcacttt gggaagcgga ggcaggaaga ttgcctgagc ccaggagtac 61440
aagaccagca tgggcaacat ggcgactccc cgtccctaca aaataaaaat taaaaagtta 61500
```

```
gccaggctcg gtggcccaca cctagagtcc cagctacgtg ggaggctgag gtgagaggat 61560
tgctcgagcc agggaagtcg aggctgcagt gagccatgat cataccacag tactccagcc 61620
tgggagacag agtgagaccc cgtctcaaaa aaaaataaat acaaaaaatt ttaaaacctc 61680
cattttgcaa atggttatgg ctttaaaaaa gaaacagttt attttccatt tataaaaagt 61740
tttaaattaa agaaactaaa gacacaaata agaactttat tattttttttt ctaaatctta 61800
aacttatgcc ctcaaataac aggaactctt tttcggttta ggtcacacga agtttggttg 61860
tgaataatct gactagtgtc atcaccagca tcccttctgg tagacaaaag gtaggaccta 61920
tcataattgt gactatgtag gtcaaatgac gaataaaatc ctcctttgcc ctgagatcat 61980
cccaaatcct gttgctgtcc atggtaaaga aggatacatc ctgctgtttc ataccgtgac 62040
accaaaataa gcttcaggtc caattaatct aaattcagtc ctcacactta tttctagtat 62100
gacaaacccg aggctgggta gaaggatgag aaggaaacac attcagctaa gagaaatgaa 62160
tataaatgat ctacattcac attcctaaaa ctcccagaca gaagcacgca agccaggtct 62220
gctaaatgag ctgcacggaa acctttgctt gtggtgctat tctcaaaaat catcccttaa 62280
tcctctctac atatttaaac caaataaatt cttcaaggcc catttcaaat catatctcct 62340
ccacacagcc tttatcccaa gtccagccta tatactctgt tctacttctg accacccaca 62400
gtttgcacta tctttagtat atagcatgga acctgaagga taattcaagt atagtcactt 62460
gaattactca aaactgtctc tcttgggttg ttccacaata aattagccct ccagagaacc 62520
tctgtgccct ttctggtatt ttagctcatt tcctctgctg cagtccctgc tgaaatggat 62580
caactgtgct gtcatcggat caaaaaaggg ggcaacagtg aaagtgttca ctgtttagtt 62640
tttccagtga aactaaagag ggctctccgc aatagtggct ccactctaaa ttggctgtgc 62700
tgagaaaaca ctctcccatc atctgctcca gatagaaata aaattttttt tttttttagag 62760
atgagatggg gtctcactat gttgcctagg ctggagggca gtgggtatca caggcaaaat 62820
cacagcacac tacagcccac aacagcccac cttgtaggtg ggtctacagg tacatgccac 62880
tgcgtctggc attccaaaga gcacttatac tctattctat aatctttctt caattcctat 62940
gaattataca cagaacattc tagccattaa aaattaatac ccctttcttg tacatttagt 63000
ccaacagaat ctttttttttt ttttttttttt tttttttgag acagagtctc gctctgtcgc 63060
caggctggag tgcaatggtg caatcttgac tcactgcaac atccacctcc tgggttcaag 63120
caatcctcct gcatcagcct cctgagtatc tgggactaca ggcgcatgcc atcacgccca 63180
gctaattttt gtattttttag tagagatggg gtttcaccat gttggccagg atggtctcga 63240
tctcttgacc ttgtgatccg cccacctagg cctcccaaag tgctgggatt acaggcgtga 63300
gccactgcgc ccagcccaga atcttaatac cgtggtatat aaatataaaa tccaaaagaa 63360
ttaactatct acactatgat taaattgtat gcaattccaa agcacgatta cctaaatata 63420
atttccctaa tatataatct agcaaggtga aggataatta gcttcattac atttccttta 63480
tattatgctg gtgtattcgt gttttttttt ttatttttag ccatttactt agaagtataa 63540
aaacaatctt actggctaaa agaaaattta aaagcagagg ttaatattat tgcattcctt 63600
gaattgattg ggtatgctct acaaatagtt ataggaatag catcttcaaa aaaaaaataa 63660
atctttcaac atcttaaaca aatccagatt ccacaaaacc tatgcttgtc taattatagt 63720
tttgaatttt gatgtggttt tctatgtaaa tacatttta aggcttgcaa taggaatgta 63780
ttctattaaa agcagatgtt aaaagttaca aagtaccaaa tgtttattat gtatccccaa 63840
aacaaattta aattgtttta ttataagata tttagtgttt cagacattat tttatgtctt 63900
tggtcaaaag acaaatataa ctgtccaaat caaccaaaac acacccttgc caactacaac 63960
tggaacaatt aacaccaata caaaacatgt cttctataac acaaattatc attcagtctg 64020
tcactctgca agcactgaaa tatctactaa ttacaataaa acatagtttt caatctaaaa 64080
atgaatatct gcaataaata aaactgcagc aaagatcaaa gataaaatat gtaatctctt 64140
tttccttttc atagcagcca ataatacagt ggcaggcaat acctgaagtg tgccactctt 64200
gttctcccag attcctcaac atagtaagaa gcagcctttt attggcaatt actgcttccc 64260
gtaagaacac ttacaggtat tacgttatgt actcccatat aagagcagct gaatgatgaa 64320
tacttctttt cctgtcgtta ttacacattt ttataacttt ttttttttttt gagacggagt 64380
ctcgctctgt tgcccaggct ggagtgtagt ggcgcgatct cggctcactg caacctccgc 64440
ctcccgggtt caagcaattc tcctgcctca gcctcctgag tagctgggat tacaggcatc 64500
caccactact cccggctaat ttttttgtat ttttagtaga gacagggttt caccatgttg 64560
tcaggctggt ctcaaactcc tgacctcgaa catttttaaa aagtctttttt tagggattag 64620
gtcatcaagc acagcggaaa gactaaatca gataccaaat atctaatcct taaagttagt 64680
atctgtaata aatgtgaatt ctaacaaatc cttttattac ctgcccttat aataagtagc 64740
acatttaact atgtattttt tttctgatca gatttccaga ggctaaagtc caacaaatat 64800
ttaactgtca tacttttttct cccattctct gggcaaagaa ttttaatctg atagattaca 64860
tagaagaaac ccacaaagag attcattgtg ttgcattaaa tggttagacc aatgtcaagt 64920
tatgtacttt ttaaaaaata tcagattctt cttttacact cttgctgact tctatgtgca 64980
aatttacatt ctgggtatca tgttcctta cagatccttt aaacatgatt agacattatt 65040
```

-26-

```
tacctatggc ttattttaca aagatgattc tttttttac catgggataa atgaaatgta 65100
gcatcatttc acatttggca aggtttaacc acaatggctg tctgcctcta accactattt 65160
atatgccaca caagcaagtg gctcttactt ttactgctta cggaagctta tgtatttaaa 65220
tctcatacca ctcaaacttt tatttaactg tgcaaatgtc atgttggtga aaccacagtt 65280
tatatacttg tcaaaatctg ctaaaatatt ggccaggcgc agtggttcat gcctgtaatc 65340
ccagcacttt gggaggccaa ggtagacgga tcacctgagg tcaggagttt gagaccagcc 65400
tgatcaacat ggcgaaacca cgtctctact aaaaatacaa aaattagctg gtcacggtgg 65460
cccgcacctg taatcccagc tacttgggag gctgaggcag gagaatcgct tgaacccggg 65520
aggggggaggt tgcagtgagc caagatcatg ccactgcaca ccaacttggg caacagagtg 65580
agactccatt taaaaaaaag aaagaaagaa atctgctaaa acatggtaaa ggttttaaaa 65640
gtgtctcaca tacaatttta tttataacca cagtcattta aataccaaac atatatgaaa 65700
aaccaataca cattcaaatt cttttttttaa agtatttaat tcatttttaa aagtatatat 65760
tctggtctcc atataaaata ctgtacttac actcatataa aatattccac atccataatt 65820
atcacttaat taggaagagc agaggctttg aagccagaag gctggagtct gaacccgagc 65880
tcagcccctt accagcttgg aaacattgaa ttccgctata tctctgtacc tgaggtttct 65940
gtactatgaa ctgaggctaa cggtgcctgt ctcacagggg taggagcatt atatgagctg 66000
atataagtgc taagaacagt aactggtaca tggtaaataa tggacacaat atgacttgtg 66060
gtttccatgg ttattattgc tgtaataatt actactatta ctactactac tgcactacc 66120
aaaatatatt tccttatgac attatttgat agaagattaa ccaaaaacta tgcaaccctt 66180
attatcaaaa tcactcccaa gtaaattctc tcactttcct gctaatgagt gcggatgaat 66240
ttttttttcc ctgagagagg gtcttaatct gtcaccctgg ctggagtgca gtggtactct 66300
cacaactcac tgcagcctca acctccctgg gctcagatga tcttcccatc tcagcttccc 66360
aagtagctgg gatgacagac atgcaccact gcacccagct aattttttata ttttttatag 66420
attcagaatt tccccatgtt ccccaggctg gtctcgaaat cctgggctca agccatccac 66480
ctgccttggc ctcccaaagt gctaggatta caggtgtgag ccaccatacc cagtgggtta 66540
aacttttttaa tccttatttg atcaccaaag atcctgaggt gacttagggt cattacaaac 66600
attaaaaatc actgaactac cctggaatta gggaggagat tggactaaac acttactggc 66660
tctaaagcct tccttaaaat tgggcaagtg tgaatgtgtg tgaatgctaa agcatgaaca 66720
tcataagaga tcactttttc ttttctttt tctttttttt ttttttttga gatggagtct 66780
cactctattg cccaggctgg agtgcagtgg tgcgatctcg gctcactgca acctctgctt 66840
cccgggttca cgccattctc ctgcctcagc ctcccgagta gctgagacta cgggcacctg 66900
ctgccacgcc cggctaattt tttgtatttt tagtagagac ggggtttcta catgttagcc 66960
aggatggtct ccatctcctg acctcgtgat ccgcccgcct cggcctctga aagtgctggg 67020
attacaggcg tgagccacca cacccggcca agatcacttt ttctattttc ctctttattc 67080
cttaagagac ggggttctac atcagacaat tctaatgtca aagtgtcaca ctcatttggt 67140
tatgaaaaac tatgtcaaac tatattctga taaacttcta tgtacctttct cagctaatct 67200
tttgtgtaat gcttcaaagt aaagaaggag aaatgaagaa atcatcatag aacaaactta 67260
aatccatgct ccatgagaaa agtataaaat gctttgtctt aagctctttg gagaaaaaag 67320
gatttggaaa tacaagatat tcttcatttc tatcagtctg agcatccaga gaaaataacc 67380
ctctttctcc ttatgccaaa cggcaatgtg cccagctgag gaatcttcta ttatcacact 67440
gaaaacgtct ctgccatgac ggtaaaaaca gcacaggcac ctcgttaaac accagtgcat 67500
tcaaccacag tcttactttc aaggagaaca gagatcacag aaaaattatt tggctatttt 67560
taaatattta aacaaaaaca gaacttccag cttccattgt atataagaag aattgcttga 67620
aatacctcca taaacatatg ccacggcatt aaaggctatt aattttactg gaaatgaatc 67680
ataaggtacc aaaatgtctg cacatacaat cagtgcacat ttcccataaa aaggggaaca 67740
atttgcatgc atcctgaaaa tacactttcc ttaaacaaaa ttttaaatgt ctcaagtaaa 67800
tggaatggac agattttct tccaaataca atgaagttaa ataaaactat gtttcttcag 67860
caatccatca ctttgtagtg attttttctct aacatacatt taaaaaaatc ttttgtccct 67920
ccaaaaacag atctgaagtg cagagctcag caccaagacc caggccaagg agttgctgaa 67980
taggtttatc tggagtcatg atggagactg tcccataaac cctgtttgaa gctgaaggtc 68040
aacagtagcg tcactatcaa taaacacaaa tgaggatatt ggcaaagtct cttaccgaca 68100
atttatgaaa tgccttaatg acagaatgag gagattatct taagatgatg atgctcaaca 68160
cagaggcact gtttatatgc tgagacccct tcatgccaac tagtttaatg tgaagtttga 68220
tgatttacat gtaaatcata tttcagtaag ctaaaactta atactatgtc aaacagagaa 68280
tgaaatccta cagtcttggg caacctggga gacttcttcc ttatctgtat tcccttagcc 68340
aaaaaaacaa acaaacaaaa acaaacaaac aaaaaaacac aaaaaaacaa aaggggtgct 68400
ggaagtaagg agagcatggc tcaattttct gagtatttgg tccctggacg agagaggctc 68460
catgccacat ctacacgttt gtcatgtgac agttccggct gcctgactct tctcaatgta 68520
agccccaccc atattcctcg cccagacaga ttttacatct ctgacacaac ccaaaagagg 68580
```

```
agatacgatg attcagcctc agtgtactat atgcaaatat accaaggatt ttttaaatat 68640
ttatctctgc cagagaaaat atgattttcc attactcctt ttaacattgt caccctggac 68700
ttactgatta ttatgaaatg agtaaccttc tggtttttaa tcactactgg acatagccac 68760
tgatatttat aaagtcttca tcccttagtc agctgattaa tttaataaat atttattgag 68820
tgcctacaat gtgccaggtg ccatctcatt tactatgtta ctgacctgag gtcaccagca 68880
accagtgata atgcaacaag catttctaaa agaattcaac tgcataatgt ttgggtttac 68940
attattctca gattaataaa atgcctgggg tgagcctgct cacccagcca actacgggtc 69000
acagggtct agctgtccca ttgaaatcca tcttctcctg gctggatttg gcaatgtcca 69060
tctaatgaaa attgtctgct ctgaaataaa tatcaatgga aacaactcca ggtcatgtgc 69120
ctagctatta cttccaggtc agaggcacaa attcgaggaa tcaccccatt agctggaact 69180
cctatggggc tactgggcaa ggagaacact ggggatatca gcctcatttt tccctctttg 69240
cttcccaaga ctgagctgct tgccattcct ttgcttccaa gacctctttc ctgccaccct 69300
gcaaaagtta agaaatgtag ccactctcca tttcagggta aagacgggca ccattagcaa 69360
ttctttctat ctggagttca ttatcatgag gttttactct actttccaaa tgacacccct 69420
gagaaattta taacaatatc cctttatgac aagtccaatg gatatatcag tagaaaaaaa 69480
ttgcttggaa atgttttct tgaaatgcac caatctttct ttttatgact caaaaatgtc 69540
acaggttaga tcaaaggatc taacataaaa tagagaggtt agaaatggat acaagatttc 69600
tcttccacat ttcaagtaca gtgtgactgt ttaactggat tctaatggca tccacttcag 69660
atataatgca acaaaatacc aaacacatta tcagttacta aggattggat ttcttgattg 69720
ttttcctttg cccactcttt cctttctttc catccatagg agcactcaga tggacataaa 69780
tcaaatgaaa atttatttct aggcaactaa ttctggaaag aaacaatggc ggatattttg 69840
gaaatatgta ttatgatgtt acaaataaaa gttgggacat tatcactgga tggagataat 69900
tatgtgttgt tctatttggg ctagtcttac ttaaccacat gttctaaagt tctaaccctt 69960
gctgtctgcc taagatccat ggaggtttac acagcccaaa aactatttca aagttttctc 70020
taatgacagt tcacacttat gccagaaaca ctgtccaatt tcataaagca caaaaatact 70080
cacttgttta gccttcgtct ttgagatagt atcagagata ggtttctttc tctcctttac 70140
agcagtttta gaaaataatt cctcaaattc atgacaatct atggatggct cttcaatttt 70200
ttcccaaata agtgaagtac tggagtctct aaaattaagc aaaagaacaa taaaacagcc 70260
atcaaactga acttacatca cagcaagcat aaatagaaag gaagaagggg agggaggaag 70320
gccagcagga gggaaggagg gaaaaagaag agagataaga aggaaaaaat attctttttc 70380
tttaagacca ccatttgttt gatcaactta atgggaaagt tgaaatacca tccatgaatg 70440
aaatttttcc ccagaaataa tttccaggaa gcctcagtca tcaggccact gtataaaaat 70500
gtaaaaagaa aacttatctc agtgtgggct agggaggcaa gaaatgtctg atctctcaaa 70560
atcccaactt gacttaacaa ctttgcagat tattcatggg ttaaaaaata catatttaca 70620
ggatggcatc ctctccctcc tactgcctcc catcacccca ttgttatttg tcttctcagt 70680
gactgcagat tcgtgtagta ccacctaaaa agggtaaaca catctttta aaaagcaaac 70740
caacaacaaa acacaagcac ttcccctgtc atatctagag aaaatgactt tggggcacag 70800
tttaaaatga atcacccaca tacataagtg gcgtggtaac aacacagaag atgaactgaa 70860
aaattaaaag tcatcagaat atacagattc ttgcccccga tatggtgtag tgagtagaaa 70920
aatccatata agaaatgaaa acgaacctgg caaataccct gtttctaaat gcatgccaca 70980
tcacacaaag gaaattcaca caaggaaat tcaaggaatc atgaaacatt agaacaagga 71040
agccccagtg aggtttacag tgtgcgtttt tccctgccac ctacacattc cacagccaag 71100
tatcacagca ttgtctcaat gactaggcaa cacgggctat agatgacaca taaatgtata 71160
aagtaccacc agaatacctg gtggaaagta ttcttttatg atgatcagtc ccagctatga 71220
ttgtatgnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 71280
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntgg aaaaccaaac 71340
attgtatgtt ctcacattca taagtgagag ctaagctatg aggatgcaaa ggcataaaaa 71400
gtgatacaat ggactttggg gacttggtgg aagggtggga gggggtgagg aataaaagac 71460
tacaaattgg gttcagtgta tactgcttgg gtgatgtgtg caccaaaatc tcagatcacc 71520
actaaagaac ttactcatgt aaccaaatac cacctgttcc ccaaaaacct atggaaataa 71580
aaagtatttt ttaaaaatga cgctggaggt ctagataaat tctgtggcca cttctatatc 71640
caaaatcaat gatgtttatg cttctgtgga cttctcagtg gaggcatatc ctgagagaag 71700
tcaagtttgc tctagaggac acaagcgatt cacacatgta aatcctgttt gcagacaata 71760
caccaaggca gaataggact ttacctgcag gagggcacaa cctcttgctg ctttagactt 71820
ggaaggccac catattaaaa aaaaaaaaaa aaaagtgtac agggtttcaa agggactaaa 71880
gcaatcactt cacatcctaa tgggataaag tttctgcatg attctgtatg accctcaac 71940
tactgccttt catgccatgt tattgctagc gttgcatgtt aaagcaagca aattttcaat 72000
gaactctcac tggctttacc acagacacag atgtcaggcg gactcttgtt cataaggttc 72060
tcattatcaa ctcaacccga gttgaatatt tgactgaagg aaagaaccat atcattattt 72120
```

-28-

```
tcagatttca tcctatgact taactgggct acatctgcca gctttagaaa caccaagtac 72180
tgcctggcgc cagccttggc tttctcttct atgactatta ccccaaatgt ttcagcttga 72240
ggaagtctcc tccccatcaa aacaatttaa taaaaactta aattgtgatt aagagttact 72300
catcaattga cagggcatac caagcttgtg ctatttatga attatcccac acaagatttt 72360
aagcccaaca aatagaatcc acattcataa aggggtaagc tagaaagcca gttaaatgct 72420
tttgtgatta taaggtctgt gttattcttg aaaccatatt tctttaatag gtaaactggc 72480
attccattgg ataattcaat ctgctttaaa tctattctta ggttctagtc agcttaaggg 72540
acactctgaa tttacacttc attactctat tcacctttgg gcagtatctc tcagcataaa 72600
tatcatagga ggatatggca taagaatggc cgtcaattgt acagtagaat ccaagtatta 72660
aaatattgac actaaagcca tttataaaat gttaagaacc actctaattc caaacagaaa 72720
atatttctgt tcatatgttg caaacctcac tcccatgtga aggtacaagg agacaggatc 72780
ctaggtggtg gtcactaggt cgcgtggtca ttaggtcaca agggtagaat tctcgtgcgt 72840
gggatcagtc cccttataaa acagacacaa gagagctctc tttccttctt tctgccaatt 72900
gaggatacat ggagaagatg gcagtctgca acctgaaaga cggccctcac cagaaccgaa 72960
tatgctggca ccctgatctc gaactttcag cctcctagaa ctgtgagaaa taaatttctc 73020
ttatttatca cccaccagtc tggggtactt ggttatagta gcctgaacta agataataat 73080
gtcacatgat aattagactg ttagtaaggt atataaataa caccacaggc aaattaatag 73140
taatccttcc agaaacaatc atgggagata gcttgatcac acttacggga tatatactaa 73200
cctcggttta cacagaaact ctaagtttga aataacatta ccaacaaaca tcatatccct 73260
cagcccaaat tttaatattc agaagctaaa ttttcatttt gacacttacc atgttgtatg 73320
tctttcatat ctaaatgaag gctagacatt agtattccaa ctgcttgtga tcttttgttg 73380
cttaataact tgacaacctg ctcgagaaag aaagtaaaag gggaaaatgt taatttgaac 73440
tccaatatgc ttactagcat tttaaaaaat cctaaatgaa gaacaaattc agagaaaaga 73500
tctcacgtca ttacctaaag tattcaaaac agtgtttttt ttaatgtttg aagagagctt 73560
ttgggtttta tatcataaat cttcaaaatc caccatttc ccccattatt caccatcagc 73620
ctcaaagaca tgtttttttaa ccagtctttt gagagcctga tctgtcaaca agtaaaattt 73680
ctaatggtct aggaaattag tctggtctct gtaaaatcac aattacacat atgatcattt 73740
gcagcctgag atttgaagtg ttcttttttc tttcaatgtg gagccttgac acactgaaac 73800
ttcaaacacg tcagcaagtg aagcgcaaaa taaaagtaca cacatagaga atctgctaga 73860
ttagtttggt tgtgtcatga aaaatttttt taaaaaagtg ctttcacttg ggtcacatag 73920
aaagctcact attttactgg aagttcctct cattctgcat ttgacccaca ttttggggag 73980
aactttccta ctaattaaca gagggataca agcatcaaat taaaagggct gcatcagcac 74040
aatctcaagt ctggatttcc agcaagtctt aaagaatcag ggcacacgat cccatgcgaa 74100
gggttcctaa aacagaggtg ggaaggctgt tacagaacag atagatattt tttgaccatg 74160
ttttccagac aacagcatca ccaggaaatt ctgcttatga aacttatccc aggcctgatc 74220
gtgtgagggg cagcattttc tatttactcc cagtgttttg ttttaaatct gcttagaaaa 74280
acactggagg aaaaggaaag aaagtggtta tagtcaaatt accagaagtg acagctgctc 74340
taacagctat tgcatctttg taccctgtct tcccttatgg tttaagttgg gtcaatcagg 74400
atagtaataa aataatcata cccaactgtt acacaaagtc acagagtaaa acaatattct 74460
taatagcaat aatagcactc tgggtgcccc agcacggatg ggggtgagga ataaaacata 74520
acactttcag aaggaccaac cacgaaaacc actctgatct ttttttgttgt cgttgtttgt 74580
ttgtttgttt tgagatggag tctcactctg tcacccagga aggagtgcag tggcacgatc 74640
tcggctcact gcagcctccg cctcctgagt tcaagtgagt ctcgtgactc agcctcctga 74700
gtagctggga ttacaggtgc atgccaccat gcccagctat tttttttttt ttttttgta 74760
tttttagtgg agaccgagtt tcaccatgtt ggccaggaag gtctcgaact cctgacctca 74820
ggtgatccac ccacctcggc ctcccaaagt gttgaaataa caggcataaa ccactgctgc 74880
ctggccctgc cctgatcatt tctgaaagcc tcttggtaag gcacgatatc tcccaaaagg 74940
cgctgctttt gcaaaagaaa aagcaacata tacattttga ttctaaatgt taactaaaca 75000
tttttctaaa ttccacctag aaagatgagg ttaaaactag aatatgggcc tattagtaca 75060
gcaaagtatt tctatccata gcattgtcct cttaagagct taaaaagtag gaatttaata 75120
tcagagaagc agaaggtgta tactctgtcc tgaaaaccag tttgtaacca caagtcagtg 75180
caatccgggc tgaatcatgc tgcttgatga aaatgctttt atcaaggttt tctatcatct 75240
tctggtttct caatgcaata ggcatgtttc aatccatcta tcattcgacc tccctatagt 75300
attgacatgt tgatcacacc cttgtagtaa cttctcttcc agggctccta acatttcttc 75360
tcagttcttt tgaagatgaa ttattctgat ttcaccttaa atatttgcgt atcctagagt 75420
tctgttctct atatcttatt ttcgtcgcat tataacctat tctcatcaca ttataaccta 75480
taatttctcc tgtagagaca tacatgtctg catcttcaac ttggcagtct cctacttcgt 75540
gaaaagacat ctctatttaa attgtcccca taatctccat ttgacatgtc taaaatgaca 75600
cacatatcag ttccaccca acaccaccag ccagcttctt ctcctttatg ctatatattg 75660
```

-29-

```
agataaaggt accactattc ttcatccacc taccaatgtt aggaatctag aaaccagtca 75720
agactcctac ctccccttca cctgcatact ctggtctggt atcaagtcct gccaattaca 75780
gctgctctgt atttgcggaa accacccctc ctccttaact ctattttcag catttagttc 75840
tatactttat cttacataga taaatgcaaa agattctga ttgatctccc aaactctagt 75900
ccagtggttc tcaaagtgtg ttccttggac aaatgggcac catcatcacc tgggaagtta 75960
tcaaaaatcc aaggaaaagt tagaggggag tttcaagatg gctgactaga ggcacctggt 76020
actcgcctcc tccacaaaca agaactgaaa tagtgagtag atatcacagg tcaaacagat 76080
cacataagag agaacattgg aattcaagaa ataagtgaca ggtaacatgg gaggcaaaga 76140
agaagaggga agtggggcag tctgctcagc caggatcggc tgggagctag agaggttctc 76200
taatgtgatt aaggttctcc aggctccctc atgtggtaaa gttaagtgag cgaccccagc 76260
agcccacatt tccaccacag actcctgcaa tcgtagccat gggagaaccc cgcggcctgc 76320
acaggccctg aggctaacat tgggagccac ccggagatca ggcagcggca cccctccaga 76380
gggagcgcgc actgagttcc actcacctgc tgtgtcacaa gcagttacag gagggcactg 76440
ttttgaaatg tcagccccca ccagactgca tcctggcctg ggcccaatag cccctgcatc 76500
tccacatccc cggggctccc ctgatatcct ccaaccgcag ccagggccaa agcacaagcc 76560
tttgccaacg accctgctgc ccctagcaac aaggcctctg tgcatttaag agcaccctga 76620
ggatggggca cccctcttgc agccgccata tggagccaca gcacaagctc ccccagtcac 76680
ctgtttacaa ctgctgccat ggtaactcca ccctccccag cagcagggcc tcagggccac 76740
cacacagtcg ctgccacccc catccagcta ttctgccagg ggtaggggggg acctgggggtc 76800
cacccctatc ctacttacca cagccagcac ccacacgtac cacctagggg ccagagaaca 76860
ggaccattta accatgttaa aacccatccc actcccccag agcccaagac caccacccag 76920
aggcttggga atggccctgc cccattcacc accattgaca cctgagcact ccttctgagg 76980
gcctgaggac aaacccaccc aacctactgc taacaccaca gctagcaccc acccacccac 77040
accatccact cacccatgcc acctgcaagc cttgagactg ccccgcgtgg cctgtcatag 77100
ccactgcaac accagcgcaa accacttggg agcctaaggc ttgtctcacc actactactg 77160
cgtccctcag cacgatgccc actgcctagg agcctaagga ccctcccagc cacccagccc 77220
acttcttcca ctgctggcac ccaagcaagc cacctggagg tccaactggc ctgactgaac 77280
ctgctaatat cagggccagc atacaccacc ctaagaccaa aggacaggca tgctcagcct 77340
gccactgcca cctcaagcac ctgccagtga ttgaggactg gcccacctag catcctcatc 77400
accagcaaaa ctttaccatg acctccacta acaccacac cctaagccac tgaggaaatt 77460
acaagcacta ctgacactta cagatgaaaa aaatcataca gagactacac tgctgtattc 77520
atccagaatc aaaggcaaaa tgctacatca aaccaacacc acagatacat cttcaggaaa 77580
aagtcctccc ctataaaagc aaattcaaaa aagttggaat aagtgactgt tataccagat 77640
gcacaaatat caatgtaaat aaacaataaa cataaaacaa agagatatta cacctccaaa 77700
tgaacataat aattctccag caacaaattc caatgaaaaa gacattcatg aagttccaga 77760
aaaagaattc aagataatga tattaaagaa tctcagtgat atacaagaaa attcatataa 77820
acaatacaaa gagattagaa aaacaatta ggatatgaat gagaaattta tcaaaaagat 77880
agatatcgta aaaaagaacc aaacagaaat tctgggatgg aagacttcat tgaataaaat 77940
acaaaataca tttgaaagct tcagcaataa actagattaa gcagaagaaa gaatttaga 78000
acttgaagac aggtcttttg aaataaccta gtcagataaa aataaagaat aaagaataaa 78060
aatgaatgaa caggccaggc gtagtgtctc acgtctgtaa tcctagcact ttgggaggct 78120
gaggcaggca gataatgagg tcaggagatt gagatcatcc tggccaacat ggtaaaaccc 78180
catctctact taaaaaagta aaataaaata aaatacaaaa attagctggg tgtggtggtg 78240
catgcctgta atcccagcta ctcaggaggc tgacgcagga gaatcgcttg aaccagggag 78300
tcagaggttg caatgagcca agattgcacc actgcactcc agcctggtga cagagtgaga 78360
ctctgtctcc aaaaaaaaaa aaaaaaagtg aacaagacta catcacacat gggacaccat 78420
aaagcaaaca aatatttgaa ttttcagtgt cccagaagat gaagaataaa tgaaagggat 78480
caaaaaccta cttagtggaa caatagctaa aaaaaattcc caagtctagt aagagattta 78540
gacatacaga tacaggaagg tcagaaatcc ccaaatagat acaattcaaa aaggttttct 78600
ctgcggcaca ttagagtcaa actgtcaaaa gtgagaggca aagaacaaat tctaaaaaca 78660
gcaagagata agcatctagt cacttataag agaaccaccc cccccgtcag aataacagct 78720
gatttctcag caaaaacctt actggccagg agagaactga atgatatatt caaagagctg 78780
aaaaaaaaaa aactgccagc ccaagatact cttcccagca aagttaccct ccataaatga 78840
tggagaaata cagtctttcc tagacaagca aaagttgaag gtactaatca ccaaaaagact 78900
gggcctacaa taaaagctta tggtagtcct acacctgcaa gcaaaagaat gatatccacc 78960
atcatgaaag catgcaaaag tataaaacct actggtagag caaatgcaca aataaggaag 79020
aggaaggatc caaatgttgc cactatagaa aactacaaaa ccacaatgat gaacaataag 79080
agaaaaagaa aggaagaaag gatatacaaa gcaatcagaa atcagttaag gaggccggaa 79140
atagtggctc acacctgtaa tcctagcact ttgggagggt gaggcaggtg gatcacctga 79200
```

```
ggtcaggagt ttgagaccaa cctggccgaa atggtgaaat ctcgtctcta ctaaaaatac 79260
aaaaatcagc caggtgagat ggcgggcgtc tgtaatccca gctacttgga aggctgaggc 79320
aggagaactg ctttaacccg ggaggcggag gttgcactga gccgagatag cgtcactgcc 79380
ctccagccta ggcaacagag tgagacttcg tctcaaaaat aaataaataa aacaaaataa 79440
aatacagaaa tcaattaagg aaatgacttg aatttgccct tacatatcaa taataacctt 79500
gaatgtaaac agattaaact ttccgcttat aaagaagatg ataacatgat aaaagtttca 79560
attcagcaag aggatgattg tacccaacaa cggagcacac agatatataa aacatattat 79620
tagatctaaa gggagagaca gactcaaata caataatagt aggagacatc aacatcacac 79680
tctcagcaac agtaggatca tctagacaga aaattaacaa agaaatctag gatttaaact 79740
gaactttaga ccaaatggac ctaacagaca tttacagaac attgcattca acagctagag 79800
aacacacatt cttctcatca tcacatggaa cattcttcag agtagataat gtgttaggac 79860
acaaaaatat caacacattt taaatatcga aatcatatca agtatcttct cagatctcaa 79920
tgaaataaaa gtagaaatca gcaacaagag gaactttaga aactgcacaa atacatggaa 79980
attaaacaac ctgctcctca atgactactg agaccaggaa gaaattaagg aagaaataaa 80040
aaaaatccta gaagcaaatg aaattggaaa cacaaaacac caaaacctat gagatacaac 80100
aaaactagta ctaaaaggaa agcttaaaat aataaacgcc tacatcaaaa aagtagaaag 80160
atctcaaata aacaatctaa cagtgtatat caaggaacca gaaaagcaag aacaaaatca 80220
gtaggaagaa ataagtaatg aagattagaa cagaactaaa caaaataaag actaaaaaaa 80280
cccacaaaga atcaacaaaa taaagttagt tttatgaaaa aataaacaaa attgataaac 80340
tgctagctag actaaccaag aaaatgagag aagacccaaa tgaacaaaat cagaaattaa 80400
aaatgagaca ttacaactga taccacagaa atataaaaga tcatcagaga ctattatgaa 80460
caactataca ataatatact ggaaaatcta gaggaaatga ataaattcct ggacacatac 80520
aatctaccaa gattgaatca ggaagaaata gcaaacctga acagactaac aatgagttgt 80580
gagattgaat cagtaataaa aagtctccca acaaagaaaa gtccaggacc agatggtgtc 80640
actgccaaat tctacaaaac gtacaaagaa cactaatttt cctcaaactc ttcccacccc 80700
ccaaaaaaaa tagaagagaa gggaatgctc cctaacttat tccaccaggt cagcattacc 80760
ctgataccaa aaccagacaa gaatacaaca aaaaagaaaa ctacaggcca atatcctgat 80820
gaacagagat gcaaaaatcc ttaacaaaac actaacaagt taagttcaac agcacatcta 80880
aagaaaatac cataatcaag tgggatttat cccagggatg caaaaatggt tgtacatatg 80940
caaatcaata aatgtgatat atcaaatcaa gagtgaaaaa caaaagccat atgatcatct 81000
caatggcacac agaaaaagca tttgataaaa ttcaacatcc cttcacgata aaaattctca 81060
ataatctagg tatagtagga acatacctca acttaataaa ggcatatatg gcaaacccac 81120
agctaacatc atactgaatg gggaaaagat gaaagccttt cctctaataa ttggaacaag 81180
acaaggatgc tcactttcac cactcctact taacataaca tagtgctaga attcctagcc 81240
agagaaatca ggcaagagaa agaaataaaa ggattccaaa ctgaaagaca ggaagtcaaa 81300
ctgtttctct ttacaaatga cataagcttt tatctagaaa atataagatg ccaccaaaaa 81360
accattagtt ctgatgaact cagtaaagtt gcagtataca aaatcaacat acaaaaatca 81420
ctagttccta cagaacaata atgaactagc tgagaaagaa atgaaggcaa tccaatctca 81480
aatagctaca aaaaataaat aacttaggaa taaatttaac caagaagaca gaagacctct 81540
gtaagaaaaa ctacaacaca ttgatgaaag aaattgaaga ggacagaaac gaatagacat 81600
tccatgctca tggacaggaa gaataaatat tgttgaagtg accctactcc ccaaaacaat 81660
ctccagatcc agtgcaatcc ttatcaaaac aatgacattt ttcacagaaa tacaaaagca 81720
accgtaaaat tcttatggag ccaaaaacaa acctgaatag acaaagcaat ccggagcaaa 81780
acgaataaac aaacaaagct ggaggtatca cactgcctga ccttaaaata tattacaagg 81840
ttatagtaat caaaactgta tggtattgat ataaaaacaa acacattggc aatgggaaag 81900
aatagaggac ccagatataa aaccctatat acaggcaact ggttttcaac aaaggcgcca 81960
agaacataca tgagggaaaa gacaccctct tcaataaatt gtgctggaaa aattggatat 82020
ctatatgcag aacaatgaaa cttgaccctt atctctcacc atatacaaaa tcagtgcaag 82080
acggattaac aacttaaagg caagactcga aactataaat ctactagaag taaacagagg 82140
gaaaatactt caggaaattg gtctaggcaa agattttatg gctaagacct caaaagcaca 82200
gacaactaaa acaaaaatag acaaatggga ctattttgag ctaaaaagct tctggacagc 82260
aaaaaaacaa tcaacagagt aaagacattg cctgtttaat gggagaaaat atttgtaaac 82320
tattcattca acatgggact aatatccata tatgaggaac tcaaacaact caacagtaca 82380
taaaaaaatg aataagtaag taaataaata aataaataat tcatctcctt tgcccacttt 82440
ttaaggagga tatgagtaga catttctcaa aagacaacat acgaatggcc aacaggtata 82500
tgaaaaaaac tgctcaacat cactaaccat caggaaaatg caaatcaaac acaatgagat 82560
attatcttac ccagttaaaa tgactattat ttaaaaaaat agattctggc aaggatgtga 82620
ataaaagggg atttaaatta gtacagtcac tatggaaaac aatatggaaa tatttcaaaa 82680
aactaaaaat agaactacca tgtgatccag caatcccact cctgggtatg tacccaaagg 82740
```

-31-

```
gaaaataaat attaaaagga tatcttcacc ctacgtttac tgcagtactg ttcacaatag 82800
caaagatatg aaatcaacct gtgtccatca atggacaaat aaagaaaaaa tatttttaaa 82860
tatatataac atgtatgtta tatatatata tatatatata tatatccaat cacatgtatg 82920
tactataatg tatccaataa catgtatgtt atatatatat atataatcca taaaacatat 82980
acatacatac acaacagaat attatccagg cataaaaaaa gaataaaatc atgttatttg 83040
cagcaacacg gatagaacag gaggttctaa gtgagataag ccaggtaaag aaagtgagaa 83100
aagccttaag tgagataagc caggtaaaga aagacaagta ttggacactc tcactcatat 83160
gtgggagtga aaaatgttaa tctcatggag gtagaaagta gaacaaaaga tatcagaggc 83220
tgcgtagggt gggtggtgga gggggaggtg atgaggagag attgattaat ggggacaagc 83280
attagataga agaaatacgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 83340
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna 83400
ttttcatatt caaaatagat ggcagccaaa ccaggccaag ggtcgaggca gaaatcttgc 83460
attatgtgtg ttagaatgct acaacatttg acacaatagc ctgcagacag gggtgctcag 83520
gagacaggtt ttgagcttca tgcatcaatt agctggtctt tgagggtgac atctgttggt 83580
acatataatc actcttcttc ccaggtgtag attgtgtaac tgaaggatag ggtctacata 83640
tgccacgttc aaagtgattt aaaaaaatag tatggctggg ctcagtggat cagtggatca 83700
cacctgtaat cccagtactt tgggaggcca aggtgggcag atcacgaggt caggagatcg 83760
agaccatcct ggctaacatg gagaaacccc gtctctacta aaaaaaaaaa aaaaatacaa 83820
aaaattagcc agacttggtg gtatgtgcct atagtcccag ttacttggga ggctgaggca 83880
ggagaattgc ttgaacccag gaggcggagg ttgcagtgag ctgagattgt gccactgcac 83940
tccagcctgg gcgacagagc aagactctgt ctcaaaaaaa aaaaaaaaaa aaaatagtat 84000
ggccaggcac agtggctcac acttgtaatc ccagcacttt gggaggccaa ggcgggcaga 84060
tcacttgagg tcaggagttc aagaccaggc tggccaacat ggtgaaaccc catctctact 84120
aaaaatacaa aaaattagcc gggcgtggtg gcatgcaact ctagtcccag ttacttgaga 84180
ggctgagatg ggagaattgc ttgaacccag gaggtggatg ttgcagtgag ctgagacttt 84240
gtctcaataa ataaataaat gaataaataa taaaaattta aaaaatagta tatagtgaag 84300
agtagagtgc ctgatttact atttagtaat aaaacattca ctttccttat agactgtttt 84360
gaatttattt aggaacttgc ccccaaataa gtgaacacca atctagtatc attattgtac 84420
catttcactt gacagttgtt acagagtctg ttctttaaag tggaatcttg atagaatggg 84480
aatttcagac tcattttgga gataagctgt aaagaactaa tggtggatga tgttctcctc 84540
agggtaaggt ggaagacggg gcaattagac cccgtggtga atgcagatta atgaatctaa 84600
gtgagtctat ttggtttttt cagtttagtt ggccggagtg gaggagcaag tcatagaaaa 84660
ttggggcttt tttttcttgt ttcttcatgc catgccattc agtactgact gagggtcaag 84720
cactgtgcta agtacttaac atgatctctt caattagttg gtcttaactt aaataactca 84780
gttaatctga cttccatttt ctgatgtgaa aactgagact tagggtaatt tgcccagagt 84840
cagttgtttt gtaagcggca gaagatggaa ttccaaccca cgaaggctga ctctacatct 84900
tgtgcccttt ctccaccctc catagccaat ctgttggcct tttttctctt tctgttgcca 84960
tcactctggt ctaagccgcc ttagtgttga ggctggtctc aagtggtagt cccctaatta 85020
gtctccatgg gtccactctg ctctcttag ttccttctcc acaaaagagt gatttttttt 85080
ttctttttaa aagataggat ttctctctgt cacccaggct ggagtgcaat ggaacaatca 85140
tagctcactg cagcctggaa tccctgcact caagtgatcc tcccacctgg gcccccaaa 85200
gtgctaggaa tacaggtgtg agccattgca cctggccttg attttttaaaa accaagtcca 85260
atcttgttac acttggagat gctttaccct agggtcatac tgtagctctt atttatgacc 85320
tacagggacc tcccttagct acctgctggc taggtcggca gcttcatctt atgctattct 85380
gtgttactgt gctgcctggg aatatttata aaatgcaaat tcttgggctc tgcttctgga 85440
aagtctgatt gactagatct gagactgggc tctgggaata tgaattttg ataagccaga 85500
ttcgggaaag tcttgctcta gaaagtgtgt tctgtgaata ttagttgcta cttcgccatg 85560
gaagctgctc ttgtcttttg ttctttcact caccttttgaa ttctcaagag ttacagctct 85620
gctcatgaga gatgctgtgc cagagctaag ccttgtcaac aaaacgtttt ccctggattg 85680
atcattatgg ctttggttaa cttcttgtgt gtaactgaga aactgctcag ccaagagaga 85740
cggagagaca cacggagaga gacagagaca gggacagaga cagagagaga gagacagaga 85800
cagagagaca gagaccgaga gagacaaaca gagatagaca gagagacaga gatagacaga 85860
gacagagaca gacagagaca gagagagaga gacagacaga aacagagaga cagacagata 85920
aagagagaaa gacagagaga cagagacaga gagagagaga gaaagacaga gagaaagaca 85980
gagagacaga gacagagagg aaagatacag aaagagagag acagagagag agaaagagag 86040
agagacaggg agagaaagaa aaagagagag agaaagagag gagagagaga aggagagaga 86100
gagactgaga ctgagtttgt ctccaattgg ggttaacaga attttggtg gaattaacac 86160
cacttttat ttcttacaag aactttctct atttaatttt ctctatttga aaaaacttga 86220
gatgtaaaat gcagatgttc atacccaggt atgttgctga ataaaaactc tgtatattgg 86280
```

-32-

```
ccaggtgcag tggctcgcgc ctgtaatccc agcactttgg gaggccgagg cgggcggatc 86340
acgaggtcag gagatcgaga ccatcctggc taacatggtg aaacccctaa aaatacaaaa 86400
aattagccgg gcatggtgac gagtgcctgt agtcccagct actcaggagg ctgaggcagg 86460
agaatggcgt gaacccggga ggcggagctt gcagtgagtc tagatcgcgc cactgcactc 86520
cagcctgggt gacagagcga gactccgtct caaaaaaaaa taaataaata aataaaaaac 86580
tcgtatatta aatgtaatct tattcaatat atactgtact cataagccta aaccccaggg 86640
tttttcttcc tttatatatt aacatgtgtt ttgaaatgtg cttttgaaat acaaggggtt 86700
gtaaaacatt gaacctgcag aatgtggaca ataaagtaac cattttttgta cttatcaaag 86760
tttcaaacaa ccctagaaaa atttggaaaa cttttgcaag aatcttgtct gtaaggttta 86820
tattctatat taagaagtta ttatgtaatg cacatacaga tacagataaa attactttttc 86880
acagattaat ttttacagat attttttatct gcctttatca ccaagtatttt gatttgtaag 86940
ttgtttaggt gcacctcata tgtgtgcata aaatgaacaa ggtactattc atgtcacatc 87000
catttcagtt ctttgttgtt ggttaattct agcatttgta ctgcattaaa ttattttatt 87060
gcagtgttga tttttatttt ccccatttgc actgaagaga atataaggtt gacatttctt 87120
tttggcatgt ttctaagctc agcaaatata gcaaccgagg tgctaaattt cagtcaaaaa 87180
tagaactcct cagcctcatt ttggaaattt cttctcattc atgcacaggg attctagtgt 87240
caaatttttta gctctgccct ctgctggtca tttcaaatta tgcagaagaa ttctcagaac 87300
agtattcatt tccaaatata aggagttaca ggaaggcgtc ttaaaatttc accactgcaa 87360
aatatattca caggaagatt aattgtaata gctttacatt ttaaaatcaa aaattctttg 87420
aggtaaattt ttgaaattag agagtagcga aagctttata gatttttcaa gaaaatagca 87480
tttgtgtttt ttttcccctg agtacaggtg aaaacaaata tggttatagt taaggtatca 87540
ataacattag agaaaacaat ctgatatgta taaatgctaa tgttgattaa gtatttttttg 87600
tcctcttctg atacagcact tactccatta aagtctcttg attggttaaa ataacacaac 87660
ttccttttca gataaaacag attttttaatt aagttgtatt tgctaaaggt tatatgctcc 87720
tttagctaaa tgattaaccc ttattgaaat atgttttcac ttttaaggat ttgaacaaaa 87780
attttgtaca gaagcttaca tcaagataca aagatcatgg atgcttatag atacgatgaa 87840
ctgcaaatga aaattgaggt cagccagcca tcagacatag tcaacaaatc acgcgggtgg 87900
aaactgggta gtctcttctg tgtacagaag gaaaatgatt attgatgaaa caagacatcc 87960
atcccatgtg ctcattaatt atgaacaaga aacaatgtct gtaaacacaa ggaaagtttt 88020
tacaacgcga gaccaagaaa aacagggaag gcatatcttg ctcacagcct tgttagatca 88080
aggctttaat taaggtcaag ctgatattta ataataattt gagactaaag tccagctaaa 88140
gagtactgag ctaggtgata aaaattggtt ttgtttctca actcttacca acggtgtggc 88200
ctcaccagta aaagtcaaac taaatccctc tagtgacccg tttaatgcta atagtcacca 88260
cttttttgagc tttgctgagg gttttacaca tgtcatttga tctttaacac cccttggagg 88320
ttttgttagg tgtatttttt ataaagagac tggccataat aattagtaga gaagcattga 88380
gatctaggta tgataaactc tgaaatgcct gctcttaact gctgtgtcta ttatgcagaa 88440
gtccctaaat gtattttgga ataatcatta caggctctac atccacacat gttagcattt 88500
cacaggtatg ttcaaaggca aagagatgat aggttttcac agtaaccttc cctatatcca 88560
tagcttcaga aaataagaaa tatatggtag aaattaacca tccttctatg ggtctataca 88620
tggatattat ggataaatat cctggtttct aagtcccaat tgttatgttg atttaagggc 88680
acggtctttta gaaatgactt gttcaaattc tctactttat tctattgaag tatatttggg 88740
ctcagtagat caaagcactg cacgtgaagg cctacctcat tttttaaatga tgataataat 88800
aactgtagcc ataatggcta tatagtctac taatgggtga gtcagtgccc attctaagca 88860
ccaacaagtc accctagtct ataagtagca gagcatgtca cagatcttaa tctcagttcc 88920
agcctgtttc ctgtgctatc cgtggttggt gacagatctt aaggctgagc ccttatttta 88980
gctttctttt ctgtgaaaag agacccaaca ggcagctttc atatatgtgc tacttctgct 89040
tggtatgcgc tttcctgggg cgaattgttc aaacctcacc ttcagctaac acctttgaga 89100
aaatgtaagc tccggtgtgg gcgaagtctg gattctgaga gacaggagtc ttagaaaatt 89160
gtgaatgcag tttcgtacag tatttctttt tgcttaagaa aatctttatg ataggcattt 89220
agatgttgcc ccactcagct tgagacttgc tgtctaattt taagactgaa tcactgaaaa 89280
gtgtaagtct acctctgaag gagcagaact ctctgtgtgg caaagcagag gggccaatgg 89340
acttttttctt tattttatttt ttttgagata gggtcttgct ctgttgtcca gactggagtg 89400
caatgctgcg atcatagctc actgcagcca caaactccta ggttcaagcg atcctcccac 89460
cttaacctcc ctagtagctg ggactgcaga tgtgcaccac ctagccaatc taatttttt 89520
tctttaaata gagatggggt tttgccatgt tgcccaggct gctctcgaac tcctgggctc 89580
aagcaatcct cctgcttcag ctggcctccc aaagtgctgg gattacaggc gtgaaccacc 89640
atgcccggcc tccaatggac tttttaatgc atgtcactgt tctaaattaa accctgctat 89700
cagcactttt catattccct tttcttattc cttcttgagg gtaggtacca ccatgagctc 89760
tggcatttac agaatacaca taattctcct ctctgtctaa tccagtcctg atcctctgtc 89820
```

-33-

```
ttctctaggc cctgtctaga atctgtgtgc tcttcactgg acccttttga tactccgagc 89880
tcatttaaaa aaaaaaaaga aaaagcctta cattcctttt attccttccc ttaactcaaa 89940
attggtttcc ttttataagg ctatagtttt tgaaattcac cccactctaa ttccttcctt 90000
tggatcttct gctctcatag agccaggagg aggatgtgtg tgtatgtggg ggtgggttcc 90060
atatgcttaa ccttttgttt ccgtttccaa atttgtccta gcagtagcat catgcggtag 90120
actcatacat accacgctct cttcttctta cgcttgttcc cataattgct ggagaacctc 90180
agcacagtgg ccctgttgcc tgtgcctact tctgggatga gctaggacta agcagagaca 90240
acatcccgag aaactaatgt catgctagaa taccaatcta tgaaattcta tttctggaac 90300
ctttgctgct ctactaagca gatccatgca gagagaagcc tgccactgtc ttggcatttc 90360
tcagcctttc aaccctgtgg agtgtctatt ttgcaagtca ccacctcctt ctcccttact 90420
cagagccatc agtgattatt ggagacagct acaaaacagt ggcaataaaa tccactaaac 90480
tttccagagg cccagtctga gttgttcacc ctgtagccct gtgattttgg gtgagttact 90540
tatttgagac ttagtgtttt catctgtaag atgaggaaaa tagaagagtt ttggtgagga 90600
tcagataaaa tatcaggcac ttatgtaaga gaacattata gagtaagtgt ggtggaatcc 90660
ccaggcgggt ctgagtcatg gctttgctga gtgattgctg tgtggcactg gctggctcat 90720
ttgtcctccg tgggcttggt tcctagttgt taagatggag ggttagtgat atttacaacg 90780
tgggctgtaa aggggctatg gcaatgccca gcatagaacg agggctgagt agatgctaga 90840
gccattttat catcattttt gttgttatat tcatggcagg acttttcgg gcaaaattct 90900
tatatcatct catttaatct cactcggttc tcaaaaagta cccattgagc tggttgtatt 90960
tacagttttt ttttttttt ttttgacagg cttgcagttg tacgatcata gctcactgca 91020
gccttaacct cctgggctga agtgatctcc cacctaaacc tctctagtag ctggtaccac 91080
aggtgcatgc caccatgctt ggcaaattta tttatttatt tttttgtaga gacgaggtct 91140
cactatgttg tccaggctgg ccttgaactc agggctcaag tgatcctctc agctcgaatt 91200
cccaaagtgt tgggattaca agtgtgagcc actgctccca gcctgtatga tgctatttta 91260
taggccaggg actaaaggtt ctcacaggta aatttctaga aaaagatgga gttatgattt 91320
aagcccagaa gttgcctcat ttaaatttca tgaacttttt gttggattat gataaagcta 91380
acatgcagta aggggttcaa gaagtgtgaa caccagccgg gcgctgtggc tcacacatgt 91440
aatcctagca tttgggaggc caaggagggt ggatcacctg agttcagggg ttcgagacca 91500
gcctggccaa catggcacaa ccctgcctct actgaaaata caaaaatcag ccaggtgtgg 91560
tggtgcatgc ctgtaatcac agctactccg gaggcaggag aatctcttga acccaggagg 91620
cggaggttgc agtgagccga gatcaggcca ctgcactcca gcctgggcga caaagtgaga 91680
ttccatcaaa aaaaaaaaaa aaaaaaaaa agtgttacta cctacaaggc ctacccagtt 91740
aagaataatt catgtccgtg tcttaggaga acgtacgttc tcactggaga gagggagcag 91800
acagacaatg catcaaagag aattctcagt tcaaacacag tcaatgctga cacagatagt 91860
acagagtgct ctgggaacac agatgaagca ataaacaccc gtgtaagtgg aggaaggccc 91920
cattctagaa aggtggcatt tgaagtggca catgaaggtt aagtaggagt tttcaaggtg 91980
gaaaagacag gttgttcttg gcggaaaacc tggtttctgc ctcagagata cggttggctg 92040
tgaaagatcc tgacacattg aagaaatggt gagcaattcc agttggcaga aaccaaggtg 92100
ggctgtgaag gatgggcgga gacagggatg ggtgatacct gttactaagg gcatcttcat 92160
aggcacatcc gcaatcccaa ttccatctca gaatcattag aggtctcaaa tatttgtatt 92220
tactcatttt taaaggctag tcaagtgtag tagtgagaag aaggaaagag tagaacaagg 92280
aatttgatct gtaactgatt ctgaacaatc aattgaaatc aattgaaata actcactacc 92340
cttggaccaa ccagagatct cagatttgta gtagcaagaa aggaatatgc taatttttc 92400
cttccttcct tccttccttc cttccctccc tccctccctc tttctttctt ccctcccctc 92460
ccttcccctc ccctcctttt cttttcaaca gggccttgtg ctgtcgtcca ggctggagtg 92520
cagtgttgtg atcatggctc actgcagcct caacctttca gacttaagca atccccccccc 92580
cgaccttgac ctcctgagta gctaggacta gagttgcaca ccaccacacc ctgctaattt 92640
ttgtatttct tgtaaagaca gggtttcatc atgttgccca ggctagtctc aaactcctga 92700
gctcaagcaa tccacccacc ttggctgcca aaatgctggg attacaggtg tgagcaacca 92760
cacctggcca ctaatctttg ctttcgatga agatgatttt ctgcatagtg gagagctagc 92820
taccaggatg tggtaatcat gaaagagact ataaatcttg ttttaatttt tatttttta 92880
accaatctca ttctgctgcc caggctggag tacagtggtg caatcatggc ttactgtagc 92940
ttctaactcc tagcctcgag tgattctccc acttccacct ccatctctgg aatagctggg 93000
attagatgtg cactgccatg cctagctatt tttaaatatt ttgtagagac agggtctagc 93060
tatgttgcca ggttggtctc aaactcctgg cctcaagtgt tcctcctgcc ttggcctctc 93120
aaagtgctgg gattatgtga gccactgtgc ctggcctatc aaaatgtttt taaactagat 93180
ttgagagccc aaagtgattg agatgaataa gaaacacatt ctacagacat atctgagatg 93240
gaaataattc attttggtga cttactagat ttagaaggtg tgaggttgtc aaagatcaag 93300
gtttctagtt ttgcagatta gatgggcaat tctttattga gtaatgtttt ttaataattc 93360
```

-34-

```
atgctcttaa ttttttgatga gcaatgcaca atttgttagt atataaaagg actctttagc 93420
tatatcatta aaaaaaaaac tgaccatctg gactggcact tcaaaattag atactttttt 93480
tttttttttaa taatgactaa aacttggaat ttttataaat atatatcacc gtaaagggac 93540
agacgtggtg gctcactcct gtaatcctag cactttagga gcctgaggca ggagaatccc 93600
ttgagcctag gagtttgaaa ccacctgagg caacatagtc agactctgtc tctactaaac 93660
aacaacaaca acaacaaaaa gtcagccagg cacagtggtg catacctata gtcccagcta 93720
ctaggaaggc tgaagcggga ggatcacttg agccaggagt aggaggccga agtgtgctat 93780
gattgcacca ctgcactcta gcctgagcaa cagagtaaga ccctgtcaac aacaacaaca 93840
gcaagaagta tgtcattgaa aacagcctca tgcagaggga aatgttcagc tgggtttgag 93900
gcagataaaa aaaatccatt tgtttaaact ccaaaccatt cactacttcc gaaaatttat 93960
tttaggatac ttaaaatttta ttgattgcct tctcttaaga tgtctcggca gaggcatttc 94020
cttttaattc atccatgttg ctcttgttac atttccaaag gaagtgctac agaggtaatg 94080
cagagtcagg aaactggttc cagtaacgct gtgaagggag tgagggcagg gtttagtctc 94140
tgaaatagac tgtgcacttg cttcacaaga gggattttttt ctctccaaca gctgagttag 94200
agcaggctaa ggtggtgggc tgaaatccta gttggcccta ggatggtaag agaaagcatc 94260
cactcttgtg atgggacgga attatgcaaa gtagaaaagg tttgtcagga cctgtctcca 94320
gaaaggatca agcagaatgc attgaccaag aagatggaat ttgaacatct acaggttagt 94380
aggaatcact gaggaagtgg gatatgttag attaatagat gcaattcatt aatcgcctga 94440
attataatat acaggaaaga caagaagaaa gaaaaataag atctagaaac aaagaggatt 94500
tacgttgcta tttgagcaag cttttgaaag ctttaggaag agtggacaga ataatagaat 94560
tattcaattt aaatggattt actcttaatt gtacttgctg atatctagaa aatgaaagtt 94620
aagaaaaaaa ctttatttct tagcaataaa aggcatttaa ctattgactt taaaaagtct 94680
accgcacagc ttacattatt taatatgaca aattattgtt tcctctacag tgctgtgtta 94740
atagctaata cttttatatag ctaccttctg aagctgtaga gaggcttata actttaacgt 94800
ttcatgctga catttagttg atcctagttt atctggtata aagtagttgc tcacaattaa 94860
ttactcaaga actgagcttc gtgtatgtct gtggtagaaa tctgtgggag tatgtgagtt 94920
cattaaaacc gtgctttcct agtcattgct attagtttaa cgctttcctt gaaatatcag 94980
tcactgagag aaataatagc ttctgttatg gctctgcaca gctgtactga aagattttgt 95040
ttttcactttt cagaagtatt agaaaagttg cctccatgtc tgggttatct gaaggtgaaa 95100
ccagtcaatg attataataa cttctttttt aatttagaag ggaaataaag gaaggaaggg 95160
gagaaaagga agtaatgaag tgggggaaag gaaggaatga aggaaggaaa gaagcaatat 95220
taactatagt aactgtagtt ggtactattt atggaacact tgatatttca ggcattatga 95280
tttgcaaaaa ttatctcata atatccccat tttacagagg gaaaattgag gttcagggag 95340
attaactatt caagactggc acttcaaaat tagatacttt ttttaaaaaa atgactaaaa 95400
cttggaattt ttataaatat atatcactga aaagggccag acgtggtggc tcactcctgt 95460
aatcctagca ctttaggagc ctgaggcagg agaatcactt gagcctagga gtttgaaacc 95520
agctgaggca acatagtcag actctgtctc tactaaaaaa aaaaaaaaaa aaaagtcagc 95580
caggcacagt ggtacacacc tatagtccca gctacttgga aggctgaggc cttccaggat 95640
ttaaaattaa ttttttaaat tctaagcagca tcccctaatc cccataagat cctacctctc 95700
tcatttttttt ttcttgcagc tggataatgt tagaagatgt gttaaatatt taatccagcc 95760
ggaatgccaa gttagattca gcttggattt gaaaaacaaa accaaaccaa aaagaaaacc 95820
actggttttc aaggcctcaa agcataagct ttgtgtatta caggaaagct tctatgcttg 95880
gctggaggta ggagaacctt tctgtctttt tctgaatttg ctatgacctt gggtaagtca 95940
actgacctcc ctgggtgatg ttcagagcat tattgatgtt atataattta ttcttatcaa 96000
tgccacaagg ttggctagat atgtttcctc tctaatgtat gattaggaaa gagtcattta 96060
gacttcagtt aattttattt tcttcaaggt caaccaataa ttcagacatc aagttgaatg 96120
gaaatgagct tctaaatata ggtcaaatac ttttataaaa atcacataac tgcatctccc 96180
ccccaccacg cctgaatttg atccatctcc caataagctc tcccaagcta ctacttagtt 96240
tctattgtta gtatgttact gaccaagtgc accagtcctg cattttgtgt cgaactgatt 96300
aataattttc ttctgaaccc ctaatgcatc ccctattttg tccacactct cataaagact 96360
ctagttgata aaaatgacag gctgaatatt gctaatgtaa tatttcaatt cagatgtaac 96420
atctcttaaa gattgagcta attaatacca tgttttatg tttcatattg tatttattat 96480
tctttggtag cttaatgatt acccttctac ataatattta tatatagtct tttatctgga 96540
cccaataaga agatttgaga aaagttataa aactgctata aaacattata aaaactgttt 96600
cccgttcaac ctgactgctt tgtttccctt aattctggga ttttccatca tttgcattat 96660
ctaattgatg atagaatagt ctcatggtac cataaagtaa aagactaaca agaaattttta 96720
attggtttgc ttgtccaact gctacaaaat tataaagact gccttttttct gtgttttttt 96780
tttaaatcca ccctatgaaa cttatcttta tgtctgtctt ttctctgata cgctgggggtt 96840
taaagtgagc tgctttagcc tcattagaaa taaaaggtat cgtgttaatg tcttctagat 96900
```

                                -35-

```
gacctttagt aatttgagag atattctcca tttttgtagg cttgacactc tattttttcc  96960
ctgctcttct aactcctgta ttctgtggct tctgtatttg acagtagtag ccccactccc  97020
agcaaacctg agccgtcaca tctctctctt ttggttatgg agttcaaaat ggggttcctc  97080
acccatctaa gagtcaggta ttactttgtt cttgctgtgt gagaagtgga aggctagtga  97140
aatgaactaa taggatcttc aaagtgaaac agaccatatc caacttgtag ccatgtcgga  97200
aagcctgtcc acactatcat tacaagctca gaacagagtg tggggagaac ctattctatt  97260
taacctaacc tgtttgtggg gagccagccc tgactgccat ttattacttt taattctaat  97320
tacaaataat gcatgctcac tgagagggtt tgaaagttta ttttaaaaag cccaagtcat  97380
ggtggtatga atgttttttgc tctctcttga gtgcttagat tttcaatccc tcttggagca  97440
tatgaattat ttgcatacat ggagagatat atatatatat ctgtgtatat atatatatat  97500
atatatatat atttgtgtat atatatatat ctatatctgt gtatatatat atatacacac  97560
acacacacac acacacacat acacacatat tctttttggtc ttcagtttgt tcctcatctt  97620
agaattttttt ttttgttatt aataaaataa gagtgttaac aaaacctctg gactcaggta  97680
gtttcattgg tgaattctac caaacattta aagaagaaat aaaaccagtc ttagtataaa  97740
ctctttcaga aaacagagga ggaatgaaca ctgcccagct tattttatga ggccaaaatt  97800
tccctgatac tagaaccaga tacagtcatt agaaaactat agctactatc cctgataaat  97860
gtaaatattt attaatgaaa tatttgcaaa tttaatccag caatgtatat aaaggaatgc  97920
aaggctggtt taatatttga aaaccaaatg acatatcaaa accaggttag gttgattcca  97980
ggaaagtaag gtcagcttca catttaaaag ccacatattt ttcattatat acattgtatg  98040
tatatataca ttatatataa tgtatataat atatgtatat aatgtgtata tatataatga  98100
ttctccctag agattatcag aaaagtgttt gataaactgt atcaccattc atgacagaaa  98160
ctcttaggaa acttagaaat agaaaacttg cttaccctga taaaggacaa ttataagaaa  98220
tctacagcaa atatcattag atggtgaaat attgaaggtt tgttcttta agtttgggaa  98280
tgagaaaaca atgccactat taccactctg tcttgtactg aacaattatt cctatatggt  98340
ctagaagata aataagaaat tggagaagaa ataaaactgc cattatttat gatgatgtga  98400
ttgtatatgt aaaaatttca aatacattta cagataaata attagaaata aaatttacat  98460
aattactgaa cacaaaatca atatgtaaaa ccaatgccat ttctgtatca gcaaacaaaa  98520
atttaaaaat ccttaaaaat atacatttaa gaagattnnn nnnnnnnnnn nnnnnnnnnn  98580
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  98640
nnnnnnnnnn nnnnnnntta aaaagaagca aatgcatgtt atataaaagc gatttggtaa  98700
actctaagac atacgtgttc cagttgattt taagaaaggc acactagccg ggcgcggtgg  98760
ctcacgcctg tcatcccagc actttgggag gccgaggcag gcggatcacg aggtcaggag  98820
atcgagacca tcctggctaa cacggtgaaa ccccgtctct actaaaaata caaaaaatta  98880
gccgggcgtg gtggcgggca cctgtagtcc cagttactcg ggaggctgag gcaggagaat  98940
ggcgtgaacc cgggaggcgg agcttgcagt gagccgagat cggagcttgc agtgaggcga  99000
gatccagcct gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa aaaaaaaaaa  99060
aacggcaagg cacactaaaa taaagaaaat gatacctacc tagcctacaa gattagccac  99120
acttatgatc caacccaatc aatggttaga ttcttctctt agaatagaag ctgttaaaca  99180
agaggagtag cgccatagcc tttttctaaat acagtcaagt tgaatagagt aattaaatgt  99240
cccagcagcg tgacacgcat aaatcacatc tgtaaaaata ataactatta tgtattgagt  99300
cacagaaatg aatgatgttc agtatgaaaa atggctgaaa gaccaaagcc agagaggcag  99360
gctgggattt cctgtcagct aagtccgact ccaaagttca cttgtcctct gctgtaggca  99420
gtccctgaga gccatgtgca cacacacctc tgccataaca caacactaaa tacagcacag  99480
gaatttgcta acaaaaaacc aagggaactt cttaggcttt ttgatatttt tctttaaagg  99540
gataagttta aaagaattag aaactcaatt tcttatttat attaacttttt cctttcttag  99600
aaaaagctga aacatttagg atgaccttga caaaaaaaaa aaaaatacaa ttaaaaaaaa  99660
aatccagagt tgaaaataca ccaaagtgat tccaaacaaa ccgatgaaga aacaaaatgg  99720
cattaggtat atattttatt aaagttttta ttctagcagg ttgcatttct aaatttcaca  99780
gtttgtttaa aaatatcaca gtaacatgca ctataatgct gcagtatcag caggctctta  99840
aaacaaaatg cctttctaat ttaaaccaac tatcctaagt ctccactctt taaagcaaaa  99900
agaaaatatg cacagatgtt taaactcctt gaaattaaaa taacattaca atcttttatt  99960
ctttgaacat atctttttgc cagtctagcc aattttggca tgaaaaacat ttgcaagata  100020
taatttggac ctttgctatt tcaaatatct tggaaaggag aaaacaatgt ttcacctatc  100080
tggttgcata caagtctgct gagctatatt tttcccttca gaattccctc taaaaatctg  100140
gttttagata tgtatcctat ctataatttt catattatgt tttcagcact tagaattcag  100200
ttagaagcat caaagtttac aataaaaatt aaaatataag aaaaccaata cattgtgagt  100260
accatatcta aatgtttcat gatattgcca aaaatatttg gatatcaagt atgtgtctac  100320
aaaatacagg catcagcatc tcactttgta cttcgttacc tcaatgagag atattaatca  100380
tcacaaataa aagacgtgat gcagataata aggttaatga caaccacaaa ggaataaaag  100440
```

-36-

```
actcttattg agaccatgtg catatttatt attatgttgt agcaagtatg tattcagaga 100500
acattatttg gtgcataata aagggcttta gtttattctt ccttgtaatc actgccaaaa 100560
tccagtgaaa caggtaccac tacggtccac attttacagc agaagtggct gttcaaggtc 100620
acatatccat aaagtggcag agctaggaaa tgagccaggc agtctggttc caggctctac 100680
ccccttgacc actattccac actacccctc agccatatgg agagcacact cctaccaagg 100740
aatgagacac acgatgcctc attttcccca ctatttcctt aacgccctgt gttatcaaat 100800
ataattaata tgggcagacg gaacataaag agaataaatt agttttcaaa ttgttaacta 100860
gaaagcaaac cttagacggt aaggtccatc tgaatattct gtcttatgta ttgctcaatt 100920
tcagggaaat tatgaaaaac aaataacaac caaaatagtt cccttccttt gtagttataa 100980
caacaacaaa atgcctatga gaaatttaga tgaaagtttt gatagagaaa atgttaaata 101040
ttcagaaaac aaatgaatca ctgagcatat gtttattgac tagaatcaca taataaactt 101100
ttaatgattt agtaaatggt cattcggtat tcaggcgttt tgcttcactt cctgctcttt 101160
ggccaatggc atgatgtttc tttctggccc tttttataggg acaagatttg atttcttgct 101220
ccatccatag agtatgctgg tgcttttagc actgtgaaga cacaaagatg aaaactggat 101280
ttgaccctat cctatggagg aagacatgtc cagcttcctt gaaagtctac aatctttatt 101340
cctagaaatg acatactgaa taagcaagtg gctgattctt caaagacctc ctagagtttg 101400
gaagttaaag agagataaac agtggcatgt cagtgagtta atttatgatg ctcattttca 101460
gagaataaaa atttcaacat gtgatttaa gcctttacag accaaatagt cttctttctg 101520
atggcatcat tttcagagat catatattta gcattttcc tttctttaac aaatccattt 101580
gaagaaattt atcatattgt gtcaaacaat tctatcacat cctcgtccaa caatagccaa 101640
atcattcatt attcctatcc ctgaagacat cttcaactct attgtcccag agtctcaaat 101700
tagcgttttg ctgttcaata aaaagttttt ctaaagtggc cactattaag aaattttagt 101760
ttttaaaata ttgttattct atagtaaagt gaacgaaact caagtataga gttcatttaa 101820
ttattgctta caaatgcatc attgtaacta tcactcagat cattgtatag gacattatca 101880
gcactcctga aggctccatt tatacctcct tcaatactcc cccacacaaa agtctccttc 101940
taacttctat cgtcacagat aacttctgcc tgttcttgag catcataaat ggaaacactt 102000
tgtttataat ggcttttgcc tgtaaaatcc atattgttgt tgagtataac agattgctat 102060
ttttcattgt tactattcca ccgtgtatct aatattgata gatatttaga aggtttgcag 102120
tttagggttt ttcaagtaat gctactccta tgactactgg gtcctagggt aaatgtattt 102180
gaacctgagt atttactatg aagtagattt ccaacgtaat tgtacttgtt tgtaactcta 102240
gcagagcaac taatgaaatg aacaaataaa aacttcatac tttccaataa ttttcttaaa 102300
aatttatctt gttatgataa aattattagc tacctcagaa caaaatcaca agattaaata 102360
agtcacgcag gagcctataa actagttaaa tatcttgaaa agtcattata tgtgtcagtg 102420
gtttctaata ccacatctac agatacatac acatgatgaa gagatacact gttaggtatt 102480
caccaaataa gttttaatgt cttacccaa gatcactggc tgaacattca gaagcagtgg 102540
ttataaggat acacaatgtt aaacatattt caagttttca taaatatctc tattgaatat 102600
ctaatagata gctaaatgat gtcattctaa ctcctaaatg ttcctcgaat cagtccttc 102660
ttctcaatca tcattacctt attttaacac cattatcttc cccaaagcac tacagtcagc 102720
tgcataaagg tatttagtta aaagtaaatt tgaattttcg ataagtatac aagcatttgc 102780
tggaaatgac tacaggtgaa tgtttatttc tgggttggat ttttccagct agttcattct 102840
gcttaatgcc tagaatctgt agacaatgtg ttcatagaaa caaacacagc cagatcaaaa 102900
ccctgaggaa ggaaatcatc ttttaaaaga ctcattgaga agtcaaataa aagcaatttt 102960
agaatcagat gctatttggg attatgaaag tttgttttcc caagcctagt gtaattctct 103020
taaatttaag gcagcaagta ggcaaagaaa ctcaagtatc ctctagaatt ctgcatgtat 103080
aactcaactc caatctctct caaagcccag tcttattctg caatttgccc cctaccctgc 103140
ccaccctcc caagataaag tactaagccc agtgcttggc acacagttat tcttcaataa 103200
acagtaatgg agtgaattaa tgccacatgg agtctctgat tatcttaatg ctccaatgaa 103260
attcccttct gtcaccacac catgactcaa tctgagagga agacgtgtcc cattctgtaa 103320
gtgattccat cccaagataa aaagaccagc tgcggtattt aattagtcta tttcgaaaaa 103380
tccagagaag ggaaagatac tgaaaatgca tatcagtaaa caaaatgcat aacagcagtt 103440
ctacagggta ggaaactgat aacggacaag accttgacac ttaaaatcac atggtctgtg 103500
caaaggggca agctggggtc accagcagct ggtatgcaga gctgagtcaa ggctgacttg 103560
aacaactgta agcagctctt aaaaaaagat ccctgactgt tttctaagtt ggtggcaact 103620
tatccgacta tacctgttaa ttatccgctc aagaaccatc aacagggaca gtcagcaatc 103680
aaacaaactc ttagaaagac agaactgtta gcccagtctt taaatcattg ttttgtttca 103740
tgagataaga ggtagaaatg tggcttaaga aactaagatc caaatcctag cctactccat 103800
gactattccc agctatgtga aaaacaacaa caaaaactca catccttcct gtccttagct 103860
accattagtg gaagcaatat tgactttgct gaagacataa agaataagtc acttaacttt 103920
gtaaaggcac ttccataaaa agttaaaccc aaagtagcaa aaaggaaaac aaaatccctg 103980
```

-37-

```
aaagaaatcc ctggaagagt ttaattttta tatggctgat atagtttgga tgtttgtccc 104040
ctccaaatct cacactgaaa tgtgattctc cactgttaaa ggtgagtcct agcgagaggt 104100
gactgggtca tgggagagga tcgctcatga atggctttgt gccctcctca tgggaatgag 104160
tgagttatca ctctattagt tcccacgaga tgtgattgtt aaaaagaggc tggcacttcc 104220
tcctctttct cttgcttcct ctctcaccat gtgacatccc tgctcccctc ttcaccttct 104280
gccgtgagta aaaccttcat ggcagaaggt gatgaggcct cctcagaagc tgagcagatg 104340
tgggtgcctt gcttgtgtgg tctacagaac catgagccaa ataaacctct tttctttgta 104400
aaatacccag tcccaggtat ttctttataa cagtgcaaaa ctaacacagg ggtctttca 104460
aaaagtctaa tgattctgga acacataatc tttaatgctg gcgacgagga aataccatgg 104520
ggtgtcccac tgtattaggg gcctgaagta tgtagttaaa ggcatggcga gagtgagagt 104580
cactaaagct aaaagcttcc attctgaaca gtatggatgg tgctagggag atgagaaaaa 104640
attccatttt caggtcacac ctgaaaggaa atcacctttc taccaataga actgaatgag 104700
tgcaaagagc tgaagtcatg caaaaaacgc cataatgatc agcagaatcc taggcttcaa 104760
ctttcaccgc agatcatgca tggagtaaat ttgctcaagc atgaatcaca cacccacctc 104820
ctttgtgtct atctccaaac gggtacaagg taattccaca ccaaaaacac tctcctgggg 104880
aagaagaaac cctcacacat gatacaatag acatgaataa cctaagatat taaaaaacta 104940
gaaacttaaa aaagaaacat ctgaatgatc aggagtgact aatgaataca ttaccagaca 105000
ttctgggtgg gattttttc tgccaggcca actttgatat ggggcagagg aagaagaggg 105060
gagatggctc cttattctca aaggtactgg ttgacttcac cagaagacag gaaaagcttg 105120
aggtttatgc ccttcactga tgcaagatta cacaactaac taatctgggg tctggacaca 105180
gtggctcatg cctgtaatgc cagcaacttg ggaggccgag gtgggtggat cacttgagcc 105240
caggattttg aaaccagcct gggcaacata gtgagaaccc atttctaaaa aaataaataa 105300
aaaatttta attagccagg catggtgtca tgcacctata atcccagata cttgggaggc 105360
tgaggcagaa gaatcaccta agcccaggag tttgaagctg tcgtgagcga tgatcacacc 105420
actgcactcc agcctggaaa acagagagag accctcatct ctgaaaaaaa aaacaaaaaa 105480
ttaattaaat tatttaaaaa tcaaaatctg atccaaataa aaggagcgtt taaaatgaaa 105540
agcaaatgaa tatcatagca atattaactt caccatagac tgatatcttg gcttagaagt 105600
ctttctattt aatcgtgcaa agatgacgtc catgcactct ttctcaactt gtatatgagg 105660
ataccctgga cagaaagaag tcactcttga tttatcgcaa tatcttagac ttcatctttt 105720
cccccttct cattttgaa ttagaagcca aaaaactaaa gtagaggcag gaaagagaat 105780
aattttagtt tgtataaata ccaaattact ctttagtatg agtcatgtgt tatagattct 105840
ttgaagaatt ttgcatgcaa tactggttgc catacacagg atgctaattg tagctcaaca 105900
tggaatacag aaaagaatac agatccttga acaatctgaa attgtaagtg tagttaagag 105960
ggatgtactc attcctctta caaacattag aagctgacat ggccaggatt tttaaaagtt 106020
tataagtata tgaaaaaat atttttatat aattgctttg ctaaaacata actggagaaa 106080
taaagtaagg aaactagctt gtcatgaaga gaataaacct tagtttcctc agggatacag 106140
ggaatacagg aagttatcct catctgactc aacgtgattc aacatggttt tctaattata 106200
gctaatctgt ggggaggctg atacacacat ttgtagtggg ggggttggtg gtgatgacag 106260
aaagttttt acacatctcc taaagcagaa atcatgtggt tattgtccaa catcacaatt 106320
atggcaagca agatatatgt ctctttgtgg tggaaaagat acagacatgc aaactcagac 106380
tggatttggg ctaaagagac aaatcagcat cttcacatac aatgctcagg tgcactcacc 106440
cttccaaggc ctgtttccct ttcttctaca atgggttttc cctttctgg aagatctcta 106500
cacccttgat atcttctccg acagaagttc tgcccattgt gtaaaatttc tttggccctt 106560
ctcacctttt tctcctcttt tcaggggtca tcgggaagaa ggtaagaatc atggcgaggg 106620
taggggggat gagtgtcacc tgaggaggtt gttaatgcaa aaaaattcaa taatttcttc 106680
gaatttttc tgcctctttt tcttttccgc tttgtccccc tagaaaaacc agctggcact 106740
atgagctcaa gggaagtctg actggaatag atggaaagga atgaatttaa actcacggct 106800
gtctatgagt ttaaaatacc ttatcagtta aaaagatcca agaaataatg aattcatgcc 106860
ctgcaaaaat tctatccttc caacatccct ttcatccatc tgaaaggctg aatcacatct 106920
gcctgggact ttaaagtaac tatgaaatat agaccatcat tgccagtggg tatcgtcaat 106980
agttgtaaag aatccatttc cagggtttct ggatcactaa aatgggctat tttgcttgtt 107040
aaggagggag ggggccaatg tgcaatgtgt gagtccgcct gcctcttgct tctagttctt 107100
tttatgcgca tacagaaaga ggaggaatat cathaggctgg ttttatccct aatgaattaa 107160
tgaggtggtc ctattctttg taaggtccta ctaattaatt aatgaagtgg tcctattctt 107220
tgtaaggtcc tactaattaa ttaatgaggt ggtcctattc tttgtaagat ttatatattg 107280
agtttttcag aataagcaac atctttcaaa tgtgaatttt tctcttaaac tcagcatgtc 107340
tcttcagaac aatagtatgt cacttcctct agatgacttc tgtggaatta aatttaaaac 107400
tcagtagaat agtcttagca agagagatgg ttttacatgc tttgagaaag aaatttaaaa 107460
ggaagataga cccatacaca gtctttttt ttttttttct tttttgagat gaagtctcgc 107520
```

-38-

```
tctgtcaccc aggctggagt gcagtggtgc gatctcggct cactgcaact tctgttcacc 107580
tccagggttt gagcgattct cctgcctcag cctcctgagt agctgggatt acaggtgccc 107640
gccaccaagc ccggataatt tttgtctttt tagtaaagac ggggtttcac catgttggtc 107700
aggctggtat tgaactcctg agctcaggtg atccacctgc cttggcctcc caaagtgctg 107760
ggattacagg agtgagccac caagcccggc catcatacac agtagttttc taataatctg 107820
aatttattaa gtggctgtta cagtgaatga atgaattttt taaaagcgtg ggcaacaata 107880
aaccactaga aatttacaac agcttacatt ttaaaactac gatgttgatg tgagtaaaca 107940
cacagaaaag ataaaataaa tatctgagca aaacagcaag gccacagtaa gatgagtaag 108000
aaaaacagta aggatgtgac agattcaaca aagtcctggg tggcctagcg gggaaaaaaa 108060
atgtatagta gactattata aggaaggaat gccgtggtta ttaaaacagg gtactgaaat 108120
ctgtgaaacc atattagtaa cctcaagaat ggcaaacatg acttattaag ttggattaag 108180
aaaaaaagag ggcaaactga aaacaaacaa attactgttt ggtatgagtc atatgttata 108240
gattctttct agaattttgc atgcaatcct ggttgccata catgagatgc taattgtatc 108300
tcaacatgaa tacagaaaag agtagagatt cttgaacaat ctaaaatgtt aagtgtagtt 108360
aagagggatg tattctttcc tgttagaaac atcagaagct gacatggtct ggatttgtta 108420
aagtatacgt gtatgaaaaa gatattttta agtaggtttt caactccata gtgttgcata 108480
atttcaaatt aagaaaaaga ggctgagtgc agtggctcac gcctgtaatg ccagcacttt 108540
gggaggccaa tgtgggtgga tcacgaggtc aggagatcga gaccatcctg gccaacattg 108600
tgaaaccctg tctctactta aaaaaaaaaa aaaaaaaaaa gattagctgg gcctggtggt 108660
tggtgtgtgc ctggtgcctg tagttccagc tacttgggag gctgaggcag gagaatccct 108720
tgaacccagg aggcggaggt tgcagtgagc tgagatcgca tcattgcact ccagcctgag 108780
gacagagcaa gactccatct caaaaaaaat taaaaagaa aaagaaaaag aatgagcaaa 108840
tggaagagat tcaacaacat aaatgttaag atgctcatgg tagagaatat aagtaatact 108900
cttatctgaa aaagtgaaga aaacatatgg aagatgttac caggaaggaa accaagcaat 108960
gaggatcaat gaattcaaga agtgcctaca aacgctttgg agaacagagg gatttttaaa 109020
agggataaac tcagaggatg ataagaccgg atagatgtga caagaggact tcttcaaaac 109080
cactatttct agtgcttgaa gacatttatt aaataacata aacccaaaga agcttgcctt 109140
acataagctc tttatgctgt ttgggtagaa aaaatctcgc aaactaaatc caagtttgaa 109200
aatgcaaaac tactgaatca gttcaaacct aattattatt tcaagtcacc actgtaccta 109260
ctacaagccc ctcacaaatc atgccagatt aaacacctca ggccctcaaa tttctatgcc 109320
ttcaaatcac tattcagaag ctgtgctttt cctcctagtt aaataaatga ttctaattta 109380
gccgatggta taatttgctt ttaaactgtg tattttacac taacacctgt ttccttcctg 109440
ttcaactttc tgtcactaaa atattcagaa taaactgaaa ccaccttgcc atttgatctt 109500
cttcatctgc attttataat gatcagattt tttaatacag tcaagctttg ttcacattgg 109560
tagaaacata gcgaaataca ttttcaatca ttttaaaaag aaaaagcttt gttttggtct 109620
tatatttggc aagtttgtat tgtttttattt tttggaaggc ttaatgttgga acgcaaagag 109680
atggtcaaat tagagagttt tttgtttttgt tttcttgttt ttggaatagc tgtgtgtcta 109740
cctgcttcgt gtgtggcagt attgagaaga aggctggcat tactggaata ggaaagtttt 109800
tacttacaac acaacagcca agtcagtctg gcatcactgg gggaatactg caatctagct 109860
ttcaaaacaa aacaagttac tgtgtctttc cttgccagtt caaaggatgg agaccaactc 109920
aaagccaatt tctatggagc cttgtgccga tctaggccat tgaagaaaag ctgatcattt 109980
aaaaagcact cagctgcaag tggatttcaa ctcagattct agcttctagc atgaagaaca 110040
tgctagtttc ttttgttggc actagaaaaa agcaggcaaa attccatcct aattatgaaa 110100
agctttactt acaggggtaa ttaagtacac aaaatgttag taaaaggagc tgcaagtaaa 110160
aacaccaaca acattataca ggagagtatt aaaagagaaa aggagtcatt ctgtactata 110220
tttacagcta aggaaattta aagagtgacc tatacatgtt ttgtaaaaag ttttaatggc 110280
aacattacaa tccatataga aaaatacaca gaactataca taaagattaa cacatggatc 110340
aattaaagaa aagccttgcc tacattccta ctaatacaca cctcaaaaca aaattttttt 110400
atggctctct gagaaaaaat aggaaaaaac agaaatactt taggtggcat caaagcttta 110460
ggggacgtca gctcttcctg ctctcatttt aacttcattt acactattct ctttcttttc 110520
tataagctat tgggttagtt ttttttgttgt tgttgttgtt tttcagacag ggtctgactc 110580
tcttgcccag gctggagtgc agtggcttga tctcggctca ctgcagcctt gacctcctgg 110640
gcttaagcga tcctcctgcc tcagcctctc aagcagctgg gagtaggtgg ggctacaggc 110700
acatgccacc atgcccaact aattttttgta tttttttgta gagacgtggt ctcattgtgt 110760
ttcccaggct ggtctcaaac ttctgggttc aagtgatcct gccacctcag cctcccaaaa 110820
ggctgggatt ataggcatga accactgcgc cggcctctct tctataaatt tttggttagc 110880
aaggtttata ctacagtttc ttaaaatgtg tttactaaaa cttgatattt caaagatact 110940
tttctgctgg gcacggtggc tcatacctgt aatcctagca ctttgggagg ctgaggtgag 111000
tggattacct gaggtcagca gttcgagacc agcctgacca acatggtgaa accctgtctc 111060
```

-39-

```
tactaaaata caaaaattag ctgggcatgg tggtgcatgc ctgtaatccc agctacccag 111120
gaggctgagg caggagaatc gctggaaccg gggaggcaga ggctgcagtg agctgagatc 111180
atgccactgg cactccagtc tgagactctg tctcttaaaa aaataaaaat aaaaaaaaag 111240
tcagctatgg aaggatagca cagacatttc attcactttt aaacctggcg catcatcaca 111300
tgaaacaatt ccacagaacc accaaacata gtcatttttt ataaacagta cattggtact 111360
atcatagcag catattaagt cctgactctt ctagggaggc atcattaact gtcaccaata 111420
aatcaatact ttttgatctt cactctgtat atgagcataa agggtaaggt atgttgatta 111480
ccaagagaag atcaaacatc acagcacgtg aaagaaagag agagggaggg agatggataa 111540
ggtgaggaag aggggggaaga atggtgggggt atgggctaat tttaatttgt gcattcaaat 111600
ttaggttcaa taatgcaaat ctctatttcc acataggtct gttcaacgtg taagttaaaa 111660
acacagaagt cttttagattt tgctttcaat cctccttcct ccatgaagac ttgatggaag 111720
aaagagtctt caaaacttt atgaaaatag gcaataaaac cagtttactg tcaaatatta 111780
aaacaacagt ggaggtaatc ttcataaaca cagcaaatct gtctctgggg gattctggtg 111840
actgtgtccg aaagtcacca gaatccccca gaaggccaga aaggattttc caaaggggtt 111900
ttaattatat tcccagagcc cagactcctc aagagaaaaa tcacagtcca tatatcttta 111960
gtctcttcat caaaagcaaa gaaaaaagtt ataaatttct ccttctgaga ttaatgaact 112020
cttgcctata aaactatatt atgctttaag ttaaaaacag cttaaacttt tgaccattta 112080
ttttttaggga aaaaaaagtt tatcttaagg ttttttgagg ttgaaaaata tattatttat 112140
ccagaaaatt atagtctgat atcatgatca ttctatgggt aacaagtgct accagcaaaa 112200
ttatttacct tctcataaaa aatacttact agcaaatact tgcataaata ggctaagact 112260
tgaaattctt attgaaattc aaatggctgc acctttttc atttccacca gcggtgtatg 112320
agggttccag tttctccgca tccttatcat gctagctatg gcctttctct ttgattatag 112380
ccatccttgc acatgtgagg tggtgttgca ttgtggtttt gattttcatt tccctaatgc 112440
taatagtgtt gaatagtatc ctttttatgtg cttatttgag agtggtatac ttttctggag 112500
aaatccctac tgaaacctt tgcccatttt ttttctttct ttttctttt cttttcttt 112560
ttttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 112620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnacttgg ctgtattact 112680
tttaacatct cttttagaatg ggagctgata cgatgggaag gttaaagtaa tgatctttag 112740
tgaacaaaca cagtggaagc aataaacatt tagggaaaaa agggagataa acagcaaaaa 112800
gaaccagcct ttttggttcc tgctcacata ttgagaagtt tctttctact tatttgagct 112860
agagttgcag gaggtactgg accatacttt aaaagcaatct atcccttaat tgtctcaagt 112920
aatgcaagga aggaaagcac tattttattc cagcttcact ttccttgaat gatctatgga 112980
tggaaagtgc agctcagttt tttacctcct aatcgcctcc cttgcattaa cacccaactg 113040
ttctcaaata tctttttttt ggtgtttgtt ttttcaagaa aaatcttcct ggccaggcac 113100
agtggctcac gcctataatc ccagcacttt gggaggctga ggtgggtgga tcacctgagg 113160
tcaggagttt gagaccagcc tggccaacat ggtgaaaccc tgtctctact aataatacaa 113220
aaattagcca ggcgtggtgg tgcatacctg taatcccagc tactctggag gctgaggcag 113280
aattgcttga acctgggagg tacccaggtt ccttaaagtg catctgaggg tacaggaaaa 113340
aacctaacca caatgctttc cctattctct cactcaacaa tgaaaacaga ggacttctgt 113400
gacctctatc atcaaaatgt gcaaagattt cgtccctcca gcaagcaatc aattctatta 113460
tagacaccag atgagtgtcc tctaattcaa atcaattcta acactatcta cctggaggta 113520
gcatcaggtc ccacaggttg agggctcagt cctcaaaact gcccccactt catatgcaag 113580
ccacaggtcc aggcctctag gaacttctga ccaactggct ataaatccag gatccctcca 113640
cccctccgc aggttcaatg tgttagacca gcccacagaa ctcagggaaa cacataactt 113700
ttgctgactt actagaaggg atgttacaaa ggatgcagat gaagagatgg atggggagag 113760
gcttgggaaa aggggagcac caccctccgg gaaaaccatg tgttcatcag ctatctggaa 113820
gctctccaaa tcccatcaat tttggggggtt ttaatggagg tttcatgatg taggtgcgat 113880
taactacatc actgggcact ggtgaccaac ttaaccttca gcccctccca gttcccgagg 113940
ctggggggtg gggcagaaag tcccaaccct attactatgc tttggtcttt ctgtggacca 114000
gccccatcct gaagttacca gacaacaaac agtagcatat aaaaagacac ttaacctctt 114060
cgaagattcc aaggatttta ggagttgtat gccaggagat ggcaattaag accaaatgta 114120
tgtttcataa tatcaagcat cttatcctcc aacaaaatac tcctttgcct gtcctgtagt 114180
ttacctaggc ttgggaacat ctttcgatca tttctctaat tcattgtctc ttaagctcaa 114240
tgtgcaccag aatcgcctag agggtttgtt aaaacacaga ttatttggga ggtcgaggcc 114300
ggcggttcgc ctgaggtcag gagtttgaga ccagcctggc caacacagca aaatattgtc 114360
tctactaaaa atacaaaaac ttagctgggc atggtggcag gtgcctataa tcccagctac 114420
ttgggaggct gaggaaggag aattgcttga acccaggagg cggaggttgc agtgagccaa 114480
gatcatgcca ttgcactcca gcctgggcaa caagagcaaa actctgtatc aaaacaaaaa 114540
caaacaaacc aaaaaacaca cacagattgc tgggccccac ctccacagtt tccagttcag 114600
```

```
taggtctggg tagggcctga gaatctgcat atctaaccag ctcccagttg atactgaagt 114660
ctgcaaacca cacagcctaa tttataccct agacatggtt accaaaccca tcatttcaat 114720
tcttggttgc cactttttcct gtatcacatc agcaccttag ctgagaagta atggaattac 114780
tttgagagtt taatagctgg tcctaactgg ctccactctc cctcttccta tcattctaca 114840
ttcccttgcc aggtaattgt tccttaaact gtcttgctca ttcctcaaaa actcatggct 114900
cccgactact gagcataaaa cgtttttaaat cctctattag gctcataaga ccttgaatag 114960
tccataaaat gtggagactc catcactcac tctgcctact gcaaaaggat attgtgagaa 115020
tgttgggttt ttgtcttgtt ttggttttttt caagacaggg tctcattctg ttgtaccagc 115080
tggagtgcag tggcacaatc atagctcact gcagccttga cctcctgggc tcaggtgatc 115140
ctcttgtctc agcctcccaa gtagctcatg ccaccatggc cagctgtttt ttttattatt 115200
attggtagag acagggtctc cctatgttgc caatgctagt ctcagactcc tgggctcaag 115260
tgatcctccc acctcagcct cccaaagtgc tagaatttca ggcatgagct accacaccca 115320
gccttattgt gagaatttaa aaagatacag tcaattcttg ttattcacag tagttttgtc 115380
ctataaagtc tttgtgaaca tcaaattagt gaatactgaa tattgcttct agaaaaaata 115440
caggtttaga ttcctgcaag cccctggtca cattttttgtc aaccaatcaa tgcattacct 115500
ttttttaaatg tgtgttcctg ctgaaagaca ctttatttaa tatatattgc tgatttacta 115560
tggccaacag cagcatcact gaagcctgaa caaagcttat ctgacatgtg tttttgccac 115620
aaggcacatc acagccttct tgcacgtagg aacattagac aacacggcag ctctatgcct 115680
ggaggcaatt tcgaacagta aaaccaacaa gaaaaagcac aaaaacatga aaaaacagcc 115740
acaaaaacac tcttatttac agaatgagag ctgaaagaag aaagcagagc ttcacctcat 115800
tcaacatcag ctgggaaagt ccacgtcaag caactcaaat ttcttgccac ttggagcgtg 115860
tttgtgattg gccgtgaaag caccatatga atatgatttg ggggctccaa ataaatgtta 115920
gcaagtaggt gagttcgcaa atacatgcaa atccaagaat aatgaggacc acctatgcaa 115980
tgaaagcaac tttcaaaacc agagtattgc tcaactataa caacaataat gataaagagc 116040
taacatttttg agtgccagga actcctccaa agcattttac ataaatatat ttaaaactca 116100
caaaaaaaaa atgtagagat aggaattctt attatatccca ttttatagat gagaaaacta 116160
aggcacacag agtaaaatgc tattcttaaa ttctaacaaa gattctcttc ttgatcaagc 116220
tctagccagg ctcctctgag ccctcttctc aactaggcct tagccttggc ctgtaaaggc 116280
ttgagcaaac attaacatag tttctaccaa ctaaaggctg catcccaaag ataatcctac 116340
cgctctttaa attactgcct aagaaaactc aaggctgcca aaacaactta ctgtttcagc 116400
cttcacctga ggatgggggcc tctttcctag tctctggcgg aggacagact cctaacttat 116460
aactgccagt tagtagacac agctggccta atctcatttta cactaatgaa cccttgcagt 116520
ttttcacttc tgagtctcct gagcctccac tcaccttct ccctattcct ttattctccc 116580
tttaaaatgc ttggtcacct ctgtacaaat caaagttgag tttagttcac gctggactct 116640
tccctagcgc aatagttgcc actgatataa aatctgtcct taccattta actaatgtct 116700
gactttgttc atctttgaca gttccccagt taaaagtgga ataactggga tttgtgccca 116760
ggaaaactgg tccaaagcacc agatcctcaa ccactatggt atgaatataa gcaaatgttc 116820
taccactcct gaaatgcacc ctagactgag tcttctcaag tccagtgtct agaacaaaat 116880
caagtttaga caaatttaga ttaaaaaata gaagtagatt tttaaaaaga ggagtgcaga 116940
agaaacatgt ataagacaga tatgaaggat cctaaagatt aaaaaaacaa caacaacaac 117000
aaaaaacaaa caaaaacaaa acaaaacaaa aaaactagtg tatttttttag ggttggaaca 117060
agccagccaa tcatacagga aatagtgagt gataacgctg aagactgagg atggcaaggg 117120
aaaaccccat gtgtcaaact caggagtctg aacatttttct caaatgctat gagcagtcac 117180
tggatgagtc taagcagata tcagacatca gcaaatttgg attttagaaa gataactctg 117240
gaggcattgt ggaggagaga ttagaagggt taagactgga agcagagaga cccatcggga 117300
gaatactgca gtaatccaga taagactggg ctctgggtta aggcactgtc aggctgcagg 117360
ccaaggaggc ccgggagaag gaaagcaaaa cctgggtctc cagggcagct gccagctgag 117420
ctgcctctca ggtcacctgg actattgcgc ttctccctgg ccccacaccc agtgccatgt 117480
tcacttccaa ttttctacct ttactctctt ctctgatctg aaatactcac tcttcttccc 117540
tccatctatc caaaaatgac gatttgatct aaatttcacc cttcctaaga aattgccctt 117600
aattgtagtc tctcaacaac cttcacccttt tttgttaagt ttatcttggc agaattacat 117660
tgcatctcgc aaatcatttc atgtacgtga aagaggtatg ttcttctaac tgtctgcttc 117720
ttaataccca agattttgtc ttataattct tcgtatttcc ttcaatatct accacaaata 117780
ccttgcacac agtaggtcag cagatgttca ataaaggaca agcctccttt ataagcagag 117840
aacttttatc agctccacga cccccattgg attagtgct tggactgttt gcctttctcc 117900
acaggccatt aataatgttg catagtgcaa actagtttta caccatctaa aactcaatag 117960
agcaaagata ttacttcatt tcacccccaa gcctgaccac cccaaggaaa aacaaaaaca 118020
atctgtgaca tccaattatt tcttcacatt ctcatctcaa gttctaactg ctttccagat 118080
gttagctggt tttcattctt aaaactcata gaagagtttc ttttgtgatt atttctaagc 118140
```

-41-

```
taaaacgtct atattttct ctgagctcct tggagtttct acagaataaa aattattccc 118200
acaccaaaaa aaaaaaaatc ctttctttct cttaacatag tatggtgaat acctttcaaa 118260
atgttaccta tcttcaatgt cagcactgcc ctaagggtat cctgtcttct cttcccttcc 118320
taaccatctc tcgcttgccc cttcccagac tcattaggtc agagtattta gtggttaaac 118380
tatttattga ggacctaaga atgattagac actgaggaag acttcaagga tgactaactc 118440
atggtttcag acccaagtat ctctctctct atctccttta agacttgtat ttcttactcc 118500
gccttatttt agttatttac ttgtcttgtg ggttattgtt ttgttggttt ccaattactt 118560
tgcaaattca tattaccttt tgccttggag ttgagaaaga cctcatactc aacaatgttt 118620
ctttagaaac tttctatatg tctaagacat tctaccccaa ttcaaatggc ttgttttatt 118680
aagtctccag cattatttct tcagaatcac ttttactcca ctttctttg atctgaccaa 118740
tgcttctttt gctcttcaaa ctttgtttct gagtaaccaa gaccatccac aaggctactc 118800
cacattactc catctgtttc cttgacttgt tcctaaatta tttctgaaac taatggaact 118860
gagtggccac tgcataaaga gtactataac agatacttta aggagatcca gtaaaaaaat 118920
atttacttct tcaaataaat ttgcagttag attgggcaat gaggggactc ggtagggctg 118980
atcagagcaa agcgtttttc tgacacttga gaatttattt gcatatagat catacaacat 119040
atgggggaag acagtgctga tatcgtctaa ttcctttta ttgtctagca ctttgtaata 119100
gatgtgacta ttgataaatg ataaatatta taatgttcaa agacctgact ttcaattacc 119160
tgttattttc aattcttacc caaagctaga gttttaaaa atcaaaatgt tattctattt 119220
cccttccagc tagtccatgt atattagaaa gataccaaga gttttagaaa aatgctttga 119280
aacaaaaatt gtatatataa tttcaaaagc aaaaagttag aaactaggtg gctaccaggt 119340
gaagcatgtt accatacacc aatctttaac ttagaagcaa atgttcttag ataaaataat 119400
tgacactaag ctattatata ctacagagta taaaaggctt tacagtttaa atatttcaaa 119460
tggcaaagat tttaataaac agaatcaaaa gacagtcgca tttcagtttt atgacataat 119520
tcttcagata gagcagattt tcagagcata ttacttgaaa ttaaaataat cagtaagtga 119580
ggtctcaaga atgtaatttt atttgaaaac ctaattccac agggtcatca ataaaagcat 119640
tcaaggagta gctacagtcc gttctttca cttgagtgcc agctgtattt gctttaagca 119700
tcagactctc tggcaacacc acagccttct actcctgtga gttgaggaaa ggctttatga 119760
gtcatgtgtt ttttctaggg atatcgcact ctcagaatta ttaactacag aaagagtaaa 119820
agtcaaaact cattcaataa attccaatgt gctcagattg agagaacagg tgtctgaaca 119880
cacatctgaa gaataactta gagaggatgc tttccaactc ggctgcaagc ctctgactaa 119940
gcagtcctgg ggatctcaca ttacgaccac agaagaacgc aggcaacgct gatggaccag 120000
aaaaatctct taggttcatc attcatactg agaaaactgc cttcaaacct ctcatttcca 120060
gctgcattta gagatacaga actgccatct agtgactaag aaggaaaaag caaggacttt 120120
ccatgaaaaa taatttttt tacataataa caaagcacta aagttagtaa aattaacaca 120180
acttagcaca tcaaagttct agtaaaactt caaaatgtat aagtgaacta atatacctat 120240
ttgcctctat aatgtatctg gacatccaac tgatacatgg tagagtttac atataataaa 120300
ataaatttag aatctcatct cattcatctg acgattttgg catcgggtga ttacccatgt 120360
aaaagtataa tttttatcat agtataagta taaaatcaaa cagatctgta ctcaaatagc 120420
gagcctaccc tttatcaagt ttgtgatctg atgcaagtta ttttaactca tataatcatt 120480
ttctttagca gttaaatgcg cattataata gttactttaa aggattattg tgaggatttc 120540
ttaaggtaat agagtaaaag aacaggtata cagtaggttg acaattaatt tgagttttcc 120600
ctatcccctt tacggccagt tactttagcc tgtcatgaaa catatccata tcatctaaga 120660
aaagaatcag cccgtaaaat aaatgtatga caaagagtta atgattccaa aagtaagtga 120720
tgtcattgtc gggtgcttaa aatcgattgc ttccaaatat tgttccctct caattaattt 120780
tcctgacttc cagacacttc actgtcaaca aggataagat gtaacattta ttcaatctat 120840
ttcacccttg agtcttcaag ttgtaaaatc aagtgttttt aaataaccta ctccattagg 120900
ttttctgctt attgcaatat attttaccat ggtccatcgc tcaggaaaaa cactataatg 120960
ttacacacat gaatatgtat cttgaaatag cataatatag aaagcaatgc tgtacatgtt 121020
ttatcattgt tgatattatc aaatacttcc tgttcaggtt ctctttgaca ttatcgtatg 121080
taacaattga ttcatatacg tcctgaacat aagaatttag aaaaacttaa tgtatccctt 121140
taaatcacaa tttagccatg ctttccacac caaaaaaag gcttaaaaag tgagggaaga 121200
tttgagggta ctatctttct taataactgc tgacttact atttcttttt acctttttat 121260
ctttctttct cttattcgct gtgggctaat cattgcagat aattaaggaa ccatcagttg 121320
agcccaccgt gcctctccaa gtgccaccaa gttgatgtag ccctctgctc ccataacaat 121380
aagctggaaa aacttgcttt ttcaatgaac tgtccttaag gatagctaac ctagccgcat 121440
ttttgaaaag cacccaggtg ctgtttcaa ccaatgttgt accccaattt ctcctccagg 121500
gggagcacaa cctttcatgta taacacaggg attcttttct aaagggaagt tactttattt 121560
gatgagttat cagagatcag caataattta attttacaga gaagaaccct atgtcccagg 121620
taatctaagc ttgttgtcat cacactaatc agaaatagat ccgggtgtaa aacccaagta 121680
```

```
tgtgtctcct cattttctcc tagaccacca acagaacaga acacatcttt ttactgttca 121740
tttctaatac taagttactg acaaaagcat agttgggtga aaatgtaaat tggtttgtaa 121800
gcaatggttt tatatccaaa agagcaattg ctatccacaa ttactattcc atacacgttt 121860
cctttcttgc agtttttttt ttttaataag aaatccattt tagcatagct tgcattttag 121920
cgtaagaaaa aaaaacccac aaaatttggc ttctttggta actgatatgg tttggctctg 121980
tgtccccagc caaatctcat cttgtagctc ccataattcc cacatgttgt gggagggacc 122040
tggtgggaga tgactgaatc atgggggctg atctttccca tgctcttctc atgatagtga 122100
atgggtctca cgagatctaa tggttttaaa aatgggagtt tctctgcaca agctcttttt 122160
tgccttctgc catccacata agatgtgatt tgcttctcct tgccttccac catgaacttg 122220
tgaggcctcc ccagccatgt ggaagtgtaa gtccaataag cctctttctt ttgtaaattg 122280
cccattcttg ggtacaccct tatcagcagt gtgaaaacgg actaatacag taacagaaaa 122340
aaaatagttt cctggaaatt aaacagatac taattaatgt ttcatccacc aaagtaataa 122400
gaaccttatt tgactttagc aaagctctga cagatttctt tttaaagatc atagccatgg 122460
gactgtttga gcaggcacat ctcgcagact tctccctgga gtggccaccg tttcctgctg 122520
gagcccgctg ttattgggcc caactctttg gctggatata gaataaaaca gcttctgaaa 122580
agcttgtact cagttccatt tcaaggctga ttttgtatgc aaaaaataaa tggaagaaaa 122640
catccccttc tgcctgactg gattccactg caggcttagg gaaaacaagg gcatcctagc 122700
cagccgggca gatggaaaga taaatcgcag agtctgtcac aatcttaaga caaataagac 122760
agatgggaat ctgacatcct aataagatca tcttaccttc tggacagcat ctgagcgttt 122820
ttggggagtt tctgaaacag cagattgaga ttctagattg gaaaggaagc agacagtcag 122880
tatcttaaag gacaattttc ctatttcttc aatcagaaaa taaaactttc actaaaatat 122940
atcattaacc ataagtacca aaaaaatatcc agtctctctt ccaattatat aactgggtta 123000
ttaggatatg actactttc aatatatata atacatacaa tgagaatgct catgtcattt 123060
ttaaaaattg ggatattcct atgcccttct ctatatatca actatcctta tttgtctcga 123120
ttgctagttt ctaaattgtg ccagaaagtc cttctaagac tttcacagat tatattattc 123180
acttagctga agtctgtatc acgatagaag ccacttcacc aaggttgaag gatgggagct 123240
caaaagcctc atctaactgt tgtcaaattg cccttgatt tcaacaagag ataacgaaca 123300
ctgtcaccaa gagacactga gtaagaaggg attctgaagc agttttctc ttttagtcct 123360
catgtcatct gagattctat gagactgcaa attcatcatt ctaaaaagac ctaaggcata 123420
accaagtcag ggatttcttt tcgtaagcga gagggcactt tcttctaagt gaagcttgtg 123480
tgcaaattta aaaataaaag ggcctttagg ataaaaataa aaatgaaagg gccttcaagg 123540
aattcctcat gctccatgaa tcagagcctg aaaaaccact aatctcatcc atcctctgca 123600
cctttcagat gagaaattca aagcccataa tgcaagtggt tgttggcaag gtgaagacga 123660
gagtttatat ctcctgactg tcgcgttgca cccctgactg gcatgcagac cagaccctgg 123720
acacaaggta cagcagtcac tgttttggt tttgtttttt tcttttcttt tttttttttt 123780
tttttttttg agatggagtt tcgctctttc acccaggctg gagtgcaacg gcgcgatctt 123840
ggctcactgc aacctccgcc tcctgggttc aagcgattct cctgcctcag cctcccgaat 123900
agctgggatt ataggcaccc gccaccacac ccagctaatt ttttttttt tttttttggta 123960
cagacggggt ttcaccatgt tggccaggct ggtctcgaac tcctgacctc gtgatccgcc 124020
cgccttggcc tcccaaagtg ctgggatgac aggcatgagc caccgtgctc ggccagcagt 124080
cactctttat ggtcattttg acatttccaa tttagccaca tggtagctga tatatgtgac 124140
aatgctacag aaaaataaaa ggcatttagt atttaaacag cttaacatac tgttaagcta 124200
caatgaaagt tttcatttca ctcagatgag aatctgtctc cacagggacc cacaaggcct 124260
ggtttcaact actgttactc cctagcctct ctacccacct ccatctgtcc caacttgctc 124320
accaggccag ccaccctggc cagcttactt gtcttgtcac acaccagtca tgcttcttcc 124380
atagggccgc caaagccaca gtggctactg cctctgccca gagcactgca ctcactcttc 124440
ttcccaaaat ctgcaagccc cactctgtgg ctgcttcctt cggggctttg ctcaagcagc 124500
gaccccaccc actccttggc actcagcaca cactcaccct tactttcttc gtaacctgga 124560
tcatcacacc atatactcca taatgcattt ggttgcctac ttatttatac ctcttattcc 124620
actagaacat aaactctgtg aaagcaagaa tttttgtcag ttttttcctct tgttgtgtcc 124680
cccacatcca aatagtgcct ggtacttagt aggtgcttaa aatatttgtt gagtaattgt 124740
aggagtgaat gaaagaataa atgaaagatc aaaacaatga taagaacatg aaagtgggtt 124800
ccaccaggaa aagtggggta tcctgggcag agaaagagag agtaaggatt ttacaagaga 124860
caatatagat attgccttgc ctttagctat tttctgaatc tcagctagga gtatatattt 124920
taaaacaaaa ctcactgaga atagcatgat gcagtcactt accagtaagt gtcacagtgg 124980
caataaacaa ctggccttaa aatacaacca ttttcccaga taaatatagc atatcattga 125040
gctaatcaaa aatggattct tttctcttat attgacaaat ctctactctg aacttaacac 125100
cagagttagc caaatttttaa taaagatctt taacagcaaa gctagttaac agttaatatt 125160
aaagcaaatc caaactccgg aacgctctca ttttctattg tttttcgtca cttccaaatc 125220
```

```
ctcccaaaca caatagactc aagacaagtc ttggctttgt accagtgggg aaaagtctct 125280
cttcctcttc tatttagatc gtgccacaag agcctaaagg ctctcctggt ggtacacaaa 125340
gagttctttta cattagaaat gcataaaatg ctttctagct ttgttctata gtccttgacc 125400
cggtaactgg acccaaaaag taaacttctg ggctctgatg gtaaagaaca agtgcagttt 125460
atcagaaaaa cgtacttaga aaaccacatt agaaagatgc atcagcaaaa tattctgcac 125520
acctacaccc aaactttcag ctcctctctg tctaattcaa tggctacctg aactgaattc 125580
attctcccaa tcccatccct ttcattatag ttttttattg tttgaatctg tgtgttaaaa 125640
cacagaagag aaatttgcag gttgaaatgc tgtcttcaaa atcataagct ggaaaatagg 125700
agttctagag ggtcaagatt ttaacatgaa agagatgtac agaataactt cactgaaaaa 125760
taaagggaaa ataaatgaga accactggga gagaagagaa aaatacatga taaggaaaaa 125820
gaaaacaata cagaataaaa gaaagagaag gaaaaaggta taggagggag aaagagaagg 125880
ggaaggtata ggagggagaa agagaagggg aaggtatagg agggagaaag agaaggggga 125940
aggtatagga gggagaaaga gaaggggggaa ggtataggag ggagaaagag aagggggaag 126000
tataggaggg agaaagagaa gggggaaggt ataggaggga gaaagagaag gggaaggtat 126060
aggagggaga aagagaaggg gaaggtatag gagggagaaa gagaagggga aggtatagga 126120
gggagaaaga gaaggggaag gtataggagg gagaaagaga aggggggaagg tataggaggg 126180
agaaagagaa ggggcaggta taggagggag aaagagaagg ggaagttata ggagggagaa 126240
agagaagggg gaaggtatag gagggagaaa gagaagggggaaggtatagg agggagaaag 126300
agaagggggaa ggtataggag ggagaaagag aaggggcagg tataggaggg agaaagagaa 126360
ggggggaaggt ataggagggga gaaagagaag gggaaggtat aggagggaga aagagaaggggg 126420
ggaaggtata ggagggagaa agagaagggg aaggtatagg agggagaaag agaaggggaa 126480
ggtataggag ggagaaagag aaggggcagg tataggaggg agaaagagaa ggggggaaggt 126540
ataggaggga ggcccacacc gggaaggtat aggagaaaga aagagaaggg atccatacac 126600
aatgtctcgc ctcccnacag acncagannn ttgtatcacc accgcnnnnn nnnnnnnnnn 126660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 126720
nnnnnnnnnn nnnnnnnnnn nnnnctatt tgtacatcat caaaatgtag ggaattaata 126780
tattaaattt attcagatta aatcttcaaa tatataagta acttttcat tcatggtatg 126840
gcctgattca aaaacataat aatcttcatt aagaaatcac ttatttctag tatatttcca 126900
tatttatcat gtttatggtt ttgaattttt ttatttcatt tctctccaaa ctaatagatt 126960
agatgcaatt ctaatcaatg tctcaagggt gtgcgtgaat gcgtgcttgt gtgctttagt 127020
gggatgtgac aaactacccc taaactttat gttggaaggg cctagaataa gtaagatgat 127080
ctttaaaaaa atcaaagtgg gaggccgagg caggcggaat acgaggtcag gagataagag 127140
accatcctgg ctaacaaggt gaaaccctgt ctctactaaa aatagaaaac aattagccag 127200
gcgtggtggt gggtgcctgt agtcccagct actcaggagg ctgacacagg agaatggcgt 127260
gaacctggga ggcggaacgt gcagtgaggc gacattgtgc cactgcactc cagcctgggc 127320
gacagaggga gactccacct gaaaaaaaaa aaaaatacaa gtggaaagag ttaatattcc 127380
aggtatcaag acttattata atgcaacagt aattaagcat tctagtattt gtgcaaggac 127440
atagaaacac acagtggaac agagtcacct aacagactct catgtatata gacagttaat 127500
gactgacaaa agtggcactg aaaagcagct taatacagcc ttttaaataa atgagatggg 127560
gtcaactggg taatcatatg aaaaagataa tgaaagttga tatccatctc acaaatacaa 127620
aactttctag gatgattata aatgttaatg tgaaagataa aataacaaac cttctggaag 127680
ataatatggg aggtatcttg ttgcttatgg agtaggcaaa aacttcttaa acaggacaat 127740
accctggcta tagaggaaaa gactgataat ttggagtata ttgaaagtaa atgggctggg 127800
tgttgtggct cacacatgta atcccagcgc tttaggggggc tgagatggaa ggatctcctg 127860
agctcaggag gttgaggctg cagtgaactg tgattgtact ctagcactca agcctgggtg 127920
acagagcaag accttgtttc aaaaaaaaaa aaacaaaaaa ttgtcaaaag aaattatgaa 127980
gaaagcaaaa gcagctgggc atggtggctc atgcctgtaa tcccagcact ttgggaggcc 128040
gaggcaggtg gatcacaggg tcaggagttc gagaccagcc tgaccaatat ggtgaaaccc 128100
catctctact aaaaatagaa aaattagccg ggcgtggtgg cagttgcctg tagtcccagc 128160
tactcaggag gctgaggcag gagaatagct tgaacctggg aggcagaagt tgctgtgaac 128220
cgagatcgca ccactgcact ctagcctggg tgacagagca agactccgtc tcaaaaaaag 128280
aaagcaaaag ctagttatga aacgattcac attttcttt ttgtatgttg attttggtaa 128340
attgcatttt tttccttaaa aattatgttt tatctaatat ttttaaattt tggtgtaaag 128400
ttattctaat atcttactac tttaaagcct gtaggatcaa tgttatgttt cctttttat 128460
ttctgacatt agttatttgt atcaatactt gattatactt gccagaggtt tttaatatta 128520
ttagcttttc cagaagactt cttttggagc tatttattaa cacttaaatc tgtttccttc 128580
tttctcccttt ctttgggcta aattgctgga tcttttttct tcctaaattc tttagatgga 128640
tatttaacat actgattttt gtaaccttct atctttttaa tatatgcatt taaacctaca 128700
gatttctctc taaacatgac taactgtatc tctaaagtta tggcaaatat ttatattatc 128760
```

-44-

```
cttcatttaa aaaatatttt aaaatgctga ctctgttgtc ttttttcaata atgtgtgatt 128820
tagaattgta ttgcttgatt tccaaacatg gagactttgt tttatcttct tttattattg 128880
atttctaatt taattcatta tattaagaga aaacatactc ttcatttcag tatgttgcca 128940
tttattgaga tttaccgaag atgtgatcag ctttcatcag tgtgctgtgt atgcttgaaa 129000
agaatgtttt aggttaaatg ttttgcttca gtccattagg taaattgctg attatgttgt 129060
tcagatcttc catatcctta cttttttcttt tcattgtagc agctattgag aaagttattg 129120
ctactatgtt tgtggacatg tgttttttcct tagagctctg ccaattttttg ctatgtgtgc 129180
tttgaagcct tgttatttga agcacgcata tttagaatta tttattttcc ttatgaatta 129240
cattttttatc aatagaagac tctcactttg tttcttatga tgcttttttgc tgtaaatcat 129300
tatctgttat taatatagct atacttgcct tctttagttt aaaatttaca tgttatatct 129360
ttttactttc tagtaatctt aatcattttt ataccttttc atttgtatct tcaataaaga 129420
gcgtaggttt ggagctcatt ttttatcttg acagtctttt gttttttact gaagtataac 129480
taagtccatt tacatttaat acaattgttt aaatgcttgg atttaaagta ctattttatt 129540
gtatattttc tatttgtctt atctgttcta tagtcctttt cctttttgtgt cttttggatt 129600
tatcaattac tctttactat ttaattgttc tctctggtat tttaaaaact gtaattttac 129660
caactatctt ttattattat tatttttatt tttattatta agacaaggtc tccctctgtc 129720
acccatggtg gagtgcggtg gcataatcat agctcactgc agccttgaac tcctgggctt 129780
aagccatcct cccacctcag cctctcaagt agctaggact acactacagg ggtgcgtcac 129840
cacccccaaga taatttttat gtttattttt aaatttctaa attttttttgt aaaggcaaga 129900
ttttactatc ttgtccaggc tggtcttgaa ctcctgggct ccagcagtgt ttccgccttg 129960
gcctcccaaa gtgctgagat tacagacctg agccactaca cctaagctta tcttttaaaa 130020
ctgcatacat ttttgccttt tttgtttttt ggtactttca cctatttcct gacaaattaa 130080
gcaaccttaa gacctgtttc cagacaaatt aagcaacctt gagattccct aacttaataa 130140
atttcacttc caagttacac attgttattt tattttaatt ctttctatat tatctccaca 130200
ggacattaat actgtttata tgtttagtat tcatttaatc tttttttcttt gttctttctt 130260
tctgcatctt caggaatctg tttgggatta ttttctttca gcctaaagag catctttttg 130320
tatttccttt agtgcaagcc tgctaggtga caaattcttt agtgttttttg gtcttaaaat 130380
aggtttcttt cattttcttc ttgaaaaata tttttacaag gtgtagaatt ctagtaggca 130440
gtttaaaaaa gatcattaca ctatcttcta gctttcaatg acactaactt cttaacaaaa 130500
ataatctgtt tattcattca ttgaaggtca tctatttgtg gctgctttaa agatgttatt 130560
tttagctttt ttatagcagt tttactgtat tcacccactt atagcattta tagggctttg 130620
aaatcagtag tagtttgata cttttctttca ttttatgttt tcaggaatga tctttctata 130680
gataatgctt ctaagttatt ctctttatga tatctttttt tctgggactc caattataca 130740
taagttagag ttcttcactg tatctttttat cctcttattt tttctgcaat atttcccatc 130800
cttttgactc catttcttca ttctggattg tttcttttta tccttctttg aatgcactaa 130860
ttttttattc agctgcttct aatctaccat taagtagatc tgttgaggtt ttaatttggc 130920
tatttgtcag ttctagaatt gctcagtttt taaaattatt tctagttatc tgttggcatt 130980
ttttctttct gtttaaaaat ttaaatcagg gtctcatgtt gtttcccagg ctgaagtgct 131040
gtggtgcgat catagctcac tgcagcctca acctcctggg ctcaagtgat cctctagcct 131100
cagcctccca agtagctggg actacaggta tggacaccac acctggctag attttaaaat 131160
ttttttgtagg gacggggtct ctctgtgtta tctaggctgg tctcaaactg ctggactcaa 131220
gcaatcctcc caactcgacc tcccaaaagt gttggcatga ctggcatgag ccaccactct 131280
ttgctgaagt ctatttttgtc ttttatcttc ttggagagat ttaacatagc tattttaaaa 131340
tgtgagtctg ataacaatct aggatccctg tgtgtctttt tctgttgtct gtttttcctat 131400
tgatttttgt ttattttttta tttatgtctc cattttttcta ttttttttttt ttatttttatg 131460
ctgtgcaaat gcttagtttg atctcatctt ttcccagata ggatttatgt ttgcttttgc 131520
cggggacctg gggcactaat attccaagat caccttgagg tatgttcaaa gatttagatg 131580
ctttgaagtt gaattttagc cctgaaaatg ttcgacctgc cttcttctag ttaatctttg 131640
ttactagtgt gatggaattt tagattctaa ccccaagtga gaggtgttgg tagggccagt 131700
ctctcttaga ggtcagggtc ctccagtccc tttccccgga taatgtgtcc acaaactctc 131760
acaggaatcc tgtagggtgt tgaggggtgg gggcaaaagg atcccccatg agccaacctc 131820
cgctcactag gtctgtgttc tcccttgaat cctggcttgc taattttttc ttaatttaat 131880
attcccttttc ctcttccctt caagatatat ataaactcac atttatgtgt tccatgtttt 131940
ttatatatat gtatataaat ataaaatata tatatataaa taaacgttac ctcattatat 132000
aattatacgt tatgtagcca ttagctcatg tattattatt attaatttttt ttttggagac 132060
agagtttcgc tcttgttgcc caggctggag tgcaatggca cgatcttggc tcactgcaaa 132120
ctctgcctcc cgggttcaag cgattctcct gcttgaacct cccgagtaag tgagattgca 132180
ggtgccagcc accaagccca gctaattttt gtatttatag tagagatggg gtttcaccac 132240
attggccagg ctggtcttca acttctgacc tcaggcgatc cacctgcctc agcctctcaa 132300
```

-45-

```
agtgctggca ttacagatgt gagccactgc acccagcctc gtgtattata tttacaatat 132360
aaatttatag ccaaatactt tcacttggca acataccata aacagatttt acatggcatt 132420
caatgagatg tgattttaat agctcttgat tgtcccacta tatgtacaaa ttaaattttt 132480
tattcttact gctatttttg gaaactctac tttttttctt ttgtaaaaat gcaagtaaca 132540
ttggaataaa tatattctag tacataaata tttttgcata tcactgatat attctcccct 132600
tagagaagac ttctatgagt ggaattggtg gttcaaaaca gatgggttga ctgggcgcag 132660
cggctcacgc ctgtaatccc agaactttgg gaggccgagg caggcggata acctgaggtc 132720
aggagttcaa gaccagcctg gccaacatga tgaaacccaa tctctaccaa aaatacaaaa 132780
attagctggg tatggtggtg catgcctgta atcccagcta cttgggaggc tgaggcagga 132840
gaatcaaacc aacttgggag gcagaagttg cagtgagcca agattgtgcc attgcacttg 132900
agcctgggtg gcagagcagg actccatctc aaacaacaac aataacaaaa aacaaaaaaa 132960
accaaaaggg ataggttttt aaattatttt gatattaaat ttttctgtag aaaatttgtg 133020
ccaatttgta tctcactggt agtaatgtta gtgcttcttt taagcacagc taagaaaaca 133080
ctcctttgtc atttttattt tattttgggt ggggggggaca gaattttgct ctgacaccca 133140
ggctgaagta cagtgatcac agctcactgc agcctcaaac tcctgggctc aagtgaattt 133200
cccactttgt cctcccaaag tgcttggatt ataggtggga gccatagtgc ctggcctatt 133260
tgtaaacatg tcagagatct cagttcatcc tggggtttaa tcttttgatg ttatcttatt 133320
attcttttac atttgtcatt ttacatttgt cattttacat ttccatttt aaataagccc 133380
ttttatttaa aagccaacca tagatgcttt gggcaatcac atttatgtgt tccatgtaga 133440
gctgttttaa tggctatgtt atagtgctgt gtgaagattg tggcagaaat agaaattata 133500
agtgtgaaga tcatgcaatt atttaaaaaa tctgtattat ttataaaacc atgtgcacta 133560
tgattacagc tacataaaac attcaaagaa aatttagaaa ataggctggg cacggtggct 133620
cacacctgta atcccagcac tttgggaggc cgaggcgagt ggatcgcttg aggtcaggag 133680
ttcgagacca gcctggacaa catggtgaaa ccctgtctct actataaata attggccagg 133740
catggtggca cactcctgta atcccagctc ctgaggaagc tgaggcagaa gaatcctttg 133800
aatgagccaa gattgcgcca ccgcactcta gcctgggtga cagagtgaga ctctgtctca 133860
aaagaaaata aaatttagaa aatatacaca gtggatgctg tggtattatg atactgatta 133920
gttattgttt ttcttatctt cccctctcaa aacaattcta tagggttgtg ctattatttt 133980
ttaataatta aatgattaac gcaaacccag atattgtgag ttcaattcag gctactgtca 134040
gtagatctac cttttatcca gccagtcagt catcttataa atggttcaaa tgagttaaaa 134100
taaatggaca tctcagctgg gcacagtggc tcacgcctgg aataccaaca ttttgggagg 134160
ctgaggtgga ggatcacttg agctcaagag tttgagacca gcctgggcaa catagcaaga 134220
ctccatctct ccaaaaaaca aaaacaaaaa agctaggcat catggtactc acctgtagtc 134280
ctggccactt gggaggctga ggtgggagga tggcttgaac tcaggaattg aaggctacag 134340
tgacctgtga tcacactact gcacttcagc ctgggccaca gaatgagacc ccatctcttt 134400
aggtaattaa ataaatacgg ccttttttgtt atttccccaa tagtaataat gtgtttattg 134460
ctacctagtc caaaaagtat ttacaatgat taggaaaaaa agatatagta agaaaataaa 134520
aaggtgctat tttagtgaaa agattaaaga aaagaaaaaa caatactgaa gtggaaccag 134580
gaatgagact aatcaaaaac acatattcca gaatctccaa acatgtggca ggtgggccat 134640
atgtgaattt cactgttttt ttaaataaca aaaatgaaaa gcacatctga tcaacacaat 134700
ttatattgtc cctgagatta aaaaaaagaa aacacaaatg gccaggtgtg gtggctcatg 134760
cctgtaatcc caacactttg agagggccag gcaggtggat catgaggtca agagatcgag 134820
atcatcctag ccgatatggt gaaaccccgt ctttactaaa aatacaaaaa ttagctgggc 134880
gtggtggcac atgcctgtag tcccagctaa tctggaggct gaggcaggag aatcgcttga 134940
acccgggatg cagagactcc atctccgtct caaacaaaca caaactcaaa ataccatcca 135000
actatttagt tctttagaca gagctgtgaa attataagat caggaataaa tgtgtcttca 135060
gagccctcct acacgagata ttctgtaatg ggatgggcat tttcagtagt cttctgtgga 135120
cttggcagtc ttgtctcaga tatcacaccc aagcccaatt cagttgaggc aattcttttt 135180
gaggtcagta ggacaaggtg tagagccctc tgctggcctg agatagattt atctacataa 135240
tctagggata gattatattt gatttgattt gatattgttt tgttttgttt ttgagacggt 135300
ttcactgtgt cgcccaggct ggagtacagt ggtgcgatca cagctcactg cagcctcgac 135360
ctccccccgg gctcatgcat tccttccgcc tcagcctcaa gtagctggga ccacaggagt 135420
gtgccaccac acttggctaa ttttttttatg taaaattttt ttttctgtag agatagtctt 135480
gctatctcgt cctggctggt ctccatctcc tgggctcaag taatactcct gcctcggcct 135540
tctgaagtgc tggaattata ggcgtgagcc accgcacac ctgaccagga cagattttag 135600
agtggttata aagaaatcag tgagctgcat acttcgaggc aatttttatt tttaatattt 135660
ttttcccctt catgcaaact gtggcatcag gtgggagata gtactttatg gaatatctgg 135720
gatatagtta ccatattttg ctactttaat atgggtctgc tggccttgat agacaattga 135780
gctggggcag tgctgatagt ttcttattaa gagaggaact taaactcaga ttaattccca 135840
```

-46-

```
cacagatgga cattctgtct ctactcacag ataagccaat catggaatga gaatagcaac 135900
agttcctctc agacagtaat aatctaggtt ctgcattaat atacagtcca tccctggcgc 135960
cgaccagaac ccgtggacat ggtgaaccag gttatcaagt gcaaggctgc agttgcctgg 136020
gaggctggaa agcctctctc cgtagaggag atagaggtgg cacccctaaa ggctcgtgaa 136080
gtttgaatca agatcattgc cactgcagtt tgccatacca atgcctatac cctgagcaga 136140
gctgatcctg agggttgttt tccagtgatc ttgggacatg aaggtgctgg aattgtggga 136200
agtgttggtg agggagttgc taagctgaag gcgggtgata actgtcatcc cattttacat 136260
cccacagtgt ggagaatgca aattttgtct aaatcctaaa actaaccttg ccagaatata 136320
agagtcactc aagggaaagg attagtgcca gatggtacca gcagatttac ttgcaaagga 136380
aagacaattt tacattacat gggaaccagc acattttctg aatgcacagt tgtggctgat 136440
atctctgttg ctaaaataga ttctttagca cctttggata aagtctgcct tctaggttgt 136500
ggcatttcag ctggttatgg tgctgctgtg aacactgtca aggtggggcc tggctctgtt 136560
tgggccgtct ttggcctggg aggagttgga ttgacagtta tcgtgggcgg taaagtggct 136620
ggtgcatccc ggatcattgg tgtggacatc catcaagata aatttccaag ggctaaagag 136680
tttggagcca ctgaatgtat gaaccgtcag gatttttagtc aacccatcca ggaagtgctc 136740
attgagcgga ctgatggagg agtggactac tcctttgaat gtattaggaa tgtcaaggtc 136800
gtgagagcag cacttgaggc atgtcagcag ggctggggcg tcagtgtggt ggttggagta 136860
gctgcttcag gtcaagaaat tgccactcat ccattccagc tggtaacagg tcgcacatgg 136920
aaaggcactg cctttggagg gtgaaagagt gtagaaagtg tcccaaagtt ggtatctgaa 136980
tatgtgtcta aaaagataaa agttgatgaa tttgtgactc acaatctgtc ttttgatgaa 137040
attaacaaag cctttgaact gttgcattct ggaaaaagca ttcgaactgt tgtgaagatt 137100
taattcaaaa gagaaaacca gcgtccatcc tgtcgtgatg tgatgggagc agcctaacag 137160
gcagagagaa gcgcctccta gaccttcagc agctactcca gagaatggtg tgatgtgcgt 137220
cattcatgaa tctctgtaat caaggcaagg ataattcagt catggactgg actctcctcc 137280
acataaataa ttgctagctc attaaggaat attttaacat aataaaagta atttctacaa 137340
aaaaaataca gactattgga caatgaaatt ttcttgcata tggaagaacc agaaaaaatg 137400
ttgatctgaa atattttaag gtgggaacca aaccctcatc ttacctgtaa aaatctcagc 137460
gaagcactct tagaatgcct acctttgagc attgttattt tctggtggac acactatgat 137520
aaattatttg tggattatag ctctgagtta ttttaggtgt tgttatttat aacctagtga 137580
aaagatgggg aaatagctgc taaaagtaac ttttctcttt cttaagctag caggcctgta 137640
gcctacttta cgccactttt aggttgtgtt tttaaagttt ctcatatgcc tatggtagaa 137700
agtttgtttt cttaaatagg aagatacaat gtcattccgc aaaagccaaa acagatctga 137760
agaatttaag gatgtggagt ggagtcatga aaatgcatcc ctgctttaac ccaaaaataa 137820
aactgtgatt tgctctgtta aacaattctt atccatcctg accttgtcct taatactcac 137880
agtatgttga ttatttatac ttgacattcc tgagaaaaca agggaatgta ggatttggta 137940
actggtagct agaaactcat ataccctatt cgggaaaata acacatttgt gaaatattac 138000
acatacacat acacacacac acacacagaa aaagacattt atggatggtt gaggaaatat 138060
cacagggcaa ttgttaattg aatgcaacaa tggttgacaa acagccacaa tgccaagaaa 138120
actcagtttg ctcaactact tatagtcatg caaagagcac agaaagatt agtgctggtt 138180
aagtagagat gatgtgtagg tgagataatg attttcaatt cctctgaaaa ggatttttt 138240
aaagaaataa agtgtgacta ttgtaatcaa acatagattt ttaaaattca aaacaaatag 138300
tattcatggc atattacatt tgaatatcac catgtaattt tcatagttct tttcacatat 138360
catttactct tccctcatgc aagctccccc aaaaagacaa gggacacatt tttcctgatt 138420
tactgatgag aatattgagg ctccaaaagg tgatgaggtt tgcttagggg ggagcaatga 138480
atatatctta ggaattttat ctattccatg tttttttctt aaatagttaa ttaccaatag 138540
gtttagacat accagataac ctgatacctt ccttttttcca tatgatacccc acaaagtttc 138600
cttttggttc cttggtaaac aaatgaagaa aatgagatta gcagctacag cctctgccta 138660
tattgaccag ccatctcttt tatttatttt tacttgataa atgtgttaat tcagtaggca 138720
gccagtggcc cttttttttg ttttttgttt tttgtttttt tttagatgga gtcttgctct 138780
gtcgtccagg ctggagcaca gtggcctgat cttggctcac tgcaacctct gcctcccagg 138840
ttcaaacaat tctcccgcct cagctttccg agtagctggg actacaggcg cctgccacca 138900
cgctcagcta attttgtat ttttagtaga aaggggttt caacatgttg gccaggctgg 138960
tctcgaactc ctgatctcag gtgatctgcc cggcttggcc tcccaaagtg ctgggattac 139020
aggtgtgagc caccacgccc ggcctcaagt ggctttatg tagtcatcat agcactgtcc 139080
agagctaggg gagatttaca agacctgtgt ccacccttct catcctgaag tcgtttgcag 139140
tcaatttgag gaaacatgat atacactcag gactaggcgga caagccactg ttttggatag 139200
tacaccatta agtgttgaaa tgtgggggtga caggtgtgct gagttagctg tcccattcag 139260
gagtggcctt tcagcagagg tgggtctgat tcaggtgaaa tgggacttca actagatttt 139320
ttaatgattg attagactcc ttgagtgggt agagctggag aaggcattct agtggcatga 139380
```

```
agcttggttt aggaaacaag aaatgaatct gggaaggaag atggtgggaa tataggaacg 139440
ttgaaatgat atttaagttg aagagttggg atttgattct gcagacacgg aggaaccatg 139500
gaagaaatct gttttgctta ttttctgcta gtggagctac gtgatgaatg ggaggctttg 139560
agattactgt tacagcccag taatacatta cagttctgag gtgtggttca aagacagggg 139620
gactgaccag atactttttgt ttgtttatat gaggtttttat agagtgcttt tagcatgctt 139680
tgtatttttgg tgaatgatga aactcagtga gatagtttat cccccttggtt gttggtgcta 139740
cctctttttat atggaaaaaa ctatgtctga ggctgttagt aggatgatgg ctctctaggc 139800
aaaagtcttt ttgtggttga tcatgatgcc aggtctggag cctctcagtc actccagccc 139860
tgcttctctc caccaactcc cagaggagct ggtaggccaa gcattttttct aagcatgcta 139920
tagatagcat atttttacaca tgaggaaccg aagctcaggc ttagaagcat gctgttgtgg 139980
ccaatttggt tctgctactc tggaaaatat taggagggca atggctgcaa agatttaaga 140040
taggctgttt tctggggctg tgtagaagaa ctgtagctaa ctgtagctaa aataggtatc 140100
attaccacta actggagggc ggtgaaggat agagtggaga gggcattaca tttcagaaac 140160
ttctttttctt tctgtttttt tgagacaagg tcttgctctg ttgtccaggc tagagtgcag 140220
aagcatagtc atcattcatt acagcctcaa actcccaggc tcaagtgatc ctttcacttc 140280
agcctcctga gtagctagga ataaaagtgt gtgccaccat ccctggctaa ttttttaaaa 140340
attttttaaat attctgtaga ggtgggggtct cactgtgttg cccaggctgg tcttgagctc 140400
ctgggctcaa gcaatttacc tgactttgcc tcccaaagtg ctgggattat aggcgggagc 140460
cacatgcctg gctacagttc agttgttttc ttaagccatc acagtatcca tgttacctct 140520
taagaactga cttgtcaatt ttatcatgtg ctgctcttga ataagtgcat cttagctatc 140580
cccaacagcc ttgcatttac tgttttaaa aaaattatta aaaaaatttt aactgttgca 140640
aaatacacag aacattaatt taccaccttta accatttttaa gtgtccaatt cagtgttgtt 140700
atgtatattc acattgttgt gcaatcaacc tccagaattt tttcttcttg caaaactgaa 140760
agtctgtacc cgttacattg caacaacttc ctatccccca tctctccaat ccgggcaacc 140820
accatttgac tttctgacaa tatgaatttg acaatgttat gtacctcata tgggtagaat 140880
catacggtat tcgtctgttt gtagcaggct tatttcattt agccaaatgt cctccaggtt 140940
catccatgtg gtagcatgta tcagagtttc cttctatta aaggctaaat aatttcccag 141000
tttgtatata tatcacatt tgtttatctg ttcattcatg gatggtcact tgggttgctt 141060
ccacctttcg gctgttgtga acatgctgtt atgaacatag gtgtacagat gtttctttga 141120
gatcctgttt ttaattctgt ggcatatata tccagaagtg taattgctgg atcatatagt 141180
aattctatttt ttaatttttt gaggaactgc catatatttt ccatagcaac agtatcattt 141240
tacggtatca ctaatagtac acaatgcttt caatttctcc aatccttgcc agcacttatg 141300
ttctatcttg ttgttgttgt tttggatagg gccttgctct tttgctgagc tggagtgtag 141360
tggcgtgatc atggctcact gcagccttga cttccggggc tcaagtgatc ctcccaagta 141420
gctaggacta caggtgtgtg ccactatacc tggctaattt ttatattttt gtagagatga 141480
ggttttgcca tgttgcccag gctggtgctt tatttgttg ttgttgttgt ttgtttgttt 141540
tttaaatagc cattctcttg ggtgtgaggt gatttcattg tggtttttgat ttgcgtttcc 141600
ataatgatta gtgatattga gcatctttcc atgtgcttgt tgactatttt gtgtatcttc 141660
tttgaaacaa tgtctattca agtcctttgc ccatttttaaa atcaggttat ttgctttttg 141720
ttgttgactt gttaggagtt ctttctatat tcaggatgtt aaatccttat cagggttgat 141780
ttgcaaatac ttcctcccat tttgtaggtt gccttttcac tctgattgtg tcctttgatg 141840
cacggaagtt ttaaattatg atatagttca gttcattgat ttttaaaaaa atttttgttc 141900
cttgtgcttt tgttgtcata ttcaagaact cattgccaaa aacagtgtta ccaagttttt 141960
cctgtatgtt ttcgtctaag agttttgtag ttttaggtct tatgtttcag tctttgttcc 142020
attttgaatt tttgtatatg gggtaagaat ttactgggtt ttaatgaaag caaatctcaa 142080
atgaagtttt gcccaacatg taaacattta ttaaacatac aacattagtt tgcacaagag 142140
cctatccaag ctgacttgag agtcagagcg tggccagctt gccactctgg taggtgcttg 142200
acctcacctt gtgtgaaagg tccatgtgat acaaacacca aggaatagga ttctgtgacc 142260
gactgttggc aacaggcaaa gagacatcct cctaaactag aggtgggagg tagcactctc 142320
cggctgtcac accttgacat catcccttgc ctgagtttta tcctttttaa gtgtggggat 142380
gttctctgat gttgtactca atctacttac attgaattcc ttcaggttct ccaatgatag 142440
ctcattgtct aacattcatt atgttaatta aagccactaa tttcaccaat gaaaaactat 142500
ttctgatatt cagtatgcta aatagcgcag tttctggtgt tggtcgagat aggatagctg 142560
gaagatacat gagtagctca aatgcttagc caggtctgaa atgtggtcct ttctgatcca 142620
acgctgaggc taacccccagg aatctgaatt ctcagttagg accaatgact gtccctaaat 142680
gtaaagctta aactaactgg tctatacatt gtatcttcct gttcatgctg gagattattt 142740
tatgaatttc ttaatttgtt aaatacagaa atagcaacat ccatccgata actcatttac 142800
tttgtagtct cgacccagtg attacagtgg tttttgttt ttcacttcca ccatactgtt 142860
cttctctttg ctttacttga tgtggatcaa aggtattagg gaaatacaac cagttaagaa 142920
```

```
aaatgtcaca aatataggc atgcatatat tgagcatatg catcctaaaa tggttgaaca 142980
cattgttatt ctgaaatcct aatgagcagt tttccaaggt gtttataggc catggagcag 143040
gcttccctgt gagatttgta gtttgtctcc tggccctagg tatagtacta gctgctttct 143100
cattctgtcc agattctgtt ggtctgtagc tggcgaggtc tttcttggcc agaagatccc 143160
tattcaattc tttttttttt tttttttctt agcaggttca ttcactgttt catggtttct 143220
ctcccagttt ccaacctgga ccccagataa gtcggtttcc tgggcctttt gtggttgaag 143280
gcacgggagc tattattgtc ctgtggtgcc caagtacagc ctgtcctttg acattcccac 143340
aagtatataa acaatttaa aagggatatc atattcagat gaattaaaga tgctagttca 143400
gggagttctc tgattgactg tctggactat ctgattttat aattccctgc agggctacat 143460
agcatctttc cctccaaaga aagaagcgta ggttttacta tagaaaatga agtgaagcaa 143520
atgtggttat aaagaataaa tgactgcgtg aaaaaaatgt tatcttnnnn nnnnnnnnnn 143580
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 143640
nnnnnnnnnn nnnnnnnnnn nnnnnctca ctgtggtttt gatttgcatt tctccaatga 143700
ccagtaatga tgagcttttt tccctatgtc tgttggctgc atacatgtct tcttttgaga 143760
agtgtctgtt catatccttt gcccactttt tgatgggaaa gggtattctt aagtagaaag 143820
tatagcctgt ttgttatcca tgcaaatgac ctctaaggaa tggaagaatc cagcgtataa 143880
gagggatcaa accaaatatg gtggctcaca cctataatct cagcacttag ggaggctaag 143940
gccaaaggat tgcttgagaa gtttgagact agcctgggca atccctatca tttctgcaag 144000
ggaagtatag tatgaatgct gggcagcagt gaagggccca cctgaggtta gtggccatga 144060
ttttaagggt ggtttgcatt tctctctgca atgttcagct gttcaggaca caggcattag 144120
aataggtgaa gaggtggttt taacaagggt tgaggtcttg tcatttgcat atgatatttt 144180
attatagagg aattaaaggg tgtatatgac cctggaaggc atgaataatg gtgcgtggtt 144240
aagaatgtgt gttaggatgt aagggaagag tgtgagggac aatataattt gaggagaagc 144300
ttcatgtgtc ctggtgaaac tgatgagaac actttgaccc taccttgggg gttaagtaga 144360
ggataacaat gcacttgaga tgagtcaatc atctgaaata atcatgtgaa cacttagttg 144420
caccaaagca aaaggaaaat gcacaattca tattgttagt ggaagatgca gttatctatt 144480
ggggtgtgtg tcagtgtttt ccatcctttt ccaaatgaca ccccatttgc caccatgacc 144540
ctcatggtgc agactacaca ggctgctcaa ttttccacaa tcatgtaagt ttgtaaaata 144600
tcctcaagat tatatactgc ttgaatctac tatgttgcat gtagagtatt tctagatggg 144660
taagaatcag atcaagtggc aaggacgaag agagatgtat tctatattga gcatattttc 144720
tattttcga ggctctgcct ggaaagggga cagaatgctc agtgttgcct cattttctca 144780
tcaaacttga cactagttca ctggggaaat tgcatttcca agttgtttta aatcaggaag 144840
ttgttttaaa atcaggctgt gtgtttgtgt ttgcactgtt gccacttaat ccttgatcct 144900
gttaaatgtt tcttccatac agaggaacat aaacaatagc ggctttcttg atttcctaac 144960
attcatgtaa agataagttg gaaatattat atttaataaa cgtaaaatac tgtaattaaa 145020
tgtaaacaga aaattcaatt accattttgg tggattgttg gataataaca ttgaatattt 145080
gtcacagtag ccatttggaa gagaaatacag attgagttat tgatgggatc caagttgaca 145140
ttaattattt cattagaaaa atatatttct tctaattctt agaatttttt attttaaaat 145200
ctggtatgat caatccgttt aagaccagca ggtctaaact ctcccggact ctaggactgc 145260
catgtttgaa tacagttata ttgaaccttt ctgccttttc tttttttttt tttcaaataa 145320
atggagggag aaggatgtgt tttatgaaga ttatgcctta cccaacttta agtacctgca 145380
tcttcttctt tttttttttt tttttttttt tttgagacag agttgcactc tgtcgcccag 145440
gctggagtgc agtggcacaa tcttggcttg ctgcaacctc tgcctcccag gttcaagtga 145500
ttctcttgcc tcagcctccc aagtaactgg gattacaggc acctgccacc atgcccggct 145560
aatttttttg tattttagt agagacgagg tttcaccatg ttggccagcc tggttttgaa 145620
ctcccgacct caagtgatcc gcccgtcttg gcctcccaaa gtgctaggat tacaggtgtg 145680
agccacagcg cctggcccgt acctacatct tctaacattg ccttatttac cagagtgaag 145740
gcttttgaaa tatttagatg tctggtaaac aataaactta aaaatattga gttcgttaaa 145800
aatggaactc aaatgtttat ttaaattcta agaggcttta ctgtttttg aaatatttga 145860
aatgtttaga atagttacca acatgcatac tttacacttt tgagatgaat tatttctaat 145920
tcaaatgtac ttatcagtgg tccaatgaac cccgattcct attacactgt gcatatatta 145980
atgcttcttg ctaagtgccc actttaaaa gtttatttca taactatata aacaggcatt 146040
tggggctcct ggcctcactg ctgcagagtg tctggaatga gcatttgtag ggtcagttgt 146100
cattatcttg gtcacgatct ttggagtgct gtattcccat cacctgctgc acatagcaca 146160
aggtctgggt gtcacaaaga catgacgtga ctcttctagc atctgtgata ctcttgagta 146220
gtaatttcag aatacttagt gaaaggctcg aagtgttgaa atacgatgaa gtctgtgggag 146280
ttaacttttta gcctcgactt taactcattt attctgtgcc aaagaggaat ttggggggaga 146340
ggttgagttt tcctttgtgg tagcctggca ggtgaggaca aatccactta ctctcctctt 146400
tcctcagcta gaagagacga ggaatggaag gagatttgat attccttagg aattttatta 146460
```

-49-

```
ataggaaatt gcttcttctt taacaatgag gatcataact tcagctgaga ttaactttta 146520
agggctttat taaactgttt tagccactag caacgatttc ccttacacag atacatttag 146580
attgactttg cacatcttga aaataagaaa caaatgaaaa taccagagta tctttatatg 146640
tataagttgt gaaatttgaa gtctgcatta cttcttattg gttcagtttt catgggatta 146700
tttatgtata ggagcagcca aggaaaagac catagcagat ttttgtaatg atggaatgag 146760
attcctggcc tgtcaagcca gtaggtgtgg gactatggag aaagttccta aattttagtc 146820
cagttatttg aatggaatct tgaagagaca tttactattc atagagcaac ctgagctcga 146880
actgtaattt tgttctagtt gggcagtggg ggaagagaag agacttgaaa ctagtgttat 146940
atgatggaca cgtcagtgct gaaaattcac ggtgcctgag gtaggttaaa ccttcctcca 147000
accaatggtt tccatgcaag cttttttaaca cagtgatgcc tatcctatat ttttactatt 147060
tgcacatatt acgagcgatt gaaggatgtt aggaagctct gacaataaaa atggttttct 147120
ttaatgaaaa aaaaattctg ataccgtgag aagaggacag atacatcttg ctcaattaaa 147180
tcaaaatgtg tgggacacct catttctgca gttgcagaaa tgctgaaagt cactggatac 147240
ttaaagcaat gaaggaggaa gaggttgggg ttgggaaaag caaaactgat aatctccttt 147300
gtgaagacat cactgtaaga agcaggtggt acttactgaa ctctggagag aatggaaagt 147360
gtgaggacag cacagtaaat agaaggaaaa ttcccttagc agtccacttt ccaggcacca 147420
gtcacctctg gaactttaat tagaactcaa aaatgtgagt ggaggaatta gaacagaggc 147480
ctttctatct tatatttgaa aagtatttat tttacttaga agcaactttt tattaattaa 147540
aagcacatca gataaatcct aatatttgaa acacctcccc atatttaact aattcctcat 147600
tcttctagac aaggaaacat taaagtaatt tttacacatc aacatatact tcagaagaga 147660
aaaaagaaac cttcattaac tgaacaaata acaaaatatg actcaacata cacaaaaacc 147720
agtgtatcat attttttgcat atattaacta catgttgatg taaataggaa caaaattatt 147780
ccaaagggag ggtgataaat atgtgggttt tagattttc atgttttttaa acatattgga 147840
aatgtaatga aatacaagtt aattaaggtg atctctgtag cacagtggaa ggtattaccc 147900
taacatgtct aattttggta tgtgagctct gatcttatca gtcatatgtt acaaattcac 147960
aactgagttt tctttttttt atgaattttt aattttagt gaccaaactt cttagttctt 148020
cccctacct cagcatgtct gccaatatat aaatgtttac atatactaaa gaagttgaat 148080
atttaaatga agttttaggt gaactatttt aaaaaggaaa attttttccc ttaaaattgt 148140
gattataatc attgtgttta taattcaagc ttttctgttt taggtttctt tcagtgagac 148200
atgtttgtgt agcactacac tgaaaaaaga tgattcttat tggtatgaaa gttatttggg 148260
cataagacat tttagatttc tgatagattc tggacttatg gagcaatata tatgcttaca 148320
ttcaaaataa agtttatcac tgtgcccctt ttagagcatg tgttagaaaa cagtggcaaa 148380
atgtgatccc agagttaggg ttctatttcc aggggaactc actaagccct cttttacaag 148440
agcataaatg tttacctaag caagaaggtg aaatctgtta tgcccaataa aggacatttt 148500
gcagtgctgg tttacggaaa acattcaaca gacagtggat gttttacata aagtacagtg 148560
cgttgtttga aactctttgc tcatctatac actatgctta aaataaacac tatctgggaa 148620
tatacccgtc ttttttctac ctcccttatt ccacaccta gatttgtca cctgccaaag 148680
tcaaataaat cttatctaaa cagttgagat aagcgccgag tcgtacccag tgtggtcaaa 148740
tcaacaaacc tctccaaaaa cagaaatgaa atacaatatc gctagattaa acagtctaca 148800
atggtaatca tgtttgcatt taaagatttt attccaaaag gatcacagtc ttggtatcca 148860
ttttttttccc tcctgcctag acaagacggc gacatactga ctcaaacaaa atgcatttgt 148920
tctctaacaa tttaacttgt acagctctta taaacaaggc ccataggtgt atgaagccta 148980
ccgacttaat cagtaactta tgtcgttaac cttgtataag caagtatgct tgagatgtac 149040
cagtgttgga ttgtgtatgg gatttagttt tttcttgcag gaaagccttt ctttatgtag 149100
cctgagtgca aagtctatgg cattctggga ttttattgtc tgtatcttac agtaaagctc 149160
catcatgcta aactgttcaa aaagagaaga tagtacaaat taaagtgatt tctaaattat 149220
aggatattat aaaaaatgca gtttcttcc ttcctaggac atatggtatt ttaactgttt 149280
gataacaagg tgtaaactct actagggcag gaaccgtgtc tgtctggttt atgctgtatc 149340
ctcagggcgg acaagagtac ctagctcaga attagaattc tgaatatttg ttcaatgaat 149400
caatgatgtt ttccagaaga tattctgtct tctctgtgga tgaataaaaa tattttgtaa 149460
ttattacatt aatttctgat atttaaaagc atgtctctcg agagtacatt tttgtcttac 149520
agttttaat aaatggtctc ctttcaatgt cgtaccattt aattagcaaa atttaaaata 149580
cgcaataaag gaaggacaaa tgacacaata tcactcattt tttggtaata tctctaaggt 149640
actgtatttg tgcatttctt actgtagagc aatttataca ctgactgctg gtttgaaaat 149700
aacccatttt tccattattc tttaagcaga tcttcattta ctttggttca tgaaattggg 149760
aattagccca gttgtatata gatgcgtgat ttgaatatac tgtcctttta tttttaaggt 149820
ccaaacaata atacgaaact tatagtctta ttttctaatt tatattttgc tttatgagag 149880
caaatatatc tacaaaggta tatgtgctat ttagacattg accgaaaact gaagaacctt 149940
tcattttaga gtgcctgcta taacaaggac tgttttccac acaatagagg agttacctct 150000
```

```
aatctttata atatccattt aagggatgaa taacattacc actgatatgt ctatttccca 150060
tgtgaataaa ccaaagctca tagagcttac caagtctctc caagagatgc acagctggtt 150120
agtcacagag ccctgttttt agttcaggtc tatctaaatc caaaacacaa ggtctaagtc 150180
tcatgtaatt ctggagaaaa ccacaacttt tgagttatta tattggtgag ttaagacttc 150240
tcagtaaaca tgttactgtt taaactagag cttttaatca gaagagagta ataaaattta 150300
gaagtcttac aaatacaagg aatagaacgc cactatttaa atttgggatc aaaagaagaa 150360
tgctgttggt atatgtgcca tttaactggc ctttatcatg gtctttagat aatccagaat 150420
tacttgaaat attactcacg agcgtgtgtg cagggtttca ggtgtatgtt aagaatgcct 150480
ggcagcacgt cttctggcaa gatgcccacg tttgtgtgca tactcaaagg ccccaggttt 150540
ccaggtgccc aagcatctta gtggtgagat gcagaaagaa tgcaagtagt atttcctttc 150600
atcttatcat cgagtgtaaa atgttccgat gaatatggta gcaagtgtct ccttccttt 150660
gaaatatgag ttttcatcag ctgttggata tgctcacgta actaagccaa gcaaaatcca 150720
acacaaattt aaaagttgct tggctacctc tttagaaaat tttgttatg taatatacat 150780
tttggaagtt tttaatgtaa ctgcccaggt gtgcagattt tcagctggag attgatgcat 150840
cagcattcta ttccttagaa aacaatgctg ggtgtgactc ttgactcctt tcacatccag 150900
ttgcacagtg acatgcacct cccgaaggtt tctatgcttt attgagtttc aaataaagat 150960
tgagggatga tagttctagg catttctgcc aagctgtgtt tttctttttt ttcttcttcc 151020
ttcttacatc ttctcagcag attaattaga acagtaattg aaataaataa aaattaaggc 151080
agccctgaaa ataaaaatga gccttttgta tccaccacag attatagatg cagaggagga 151140
aaaggaggct tcttcccta gtaatgtctg tctgttgctc ttttctttgc agttcctctc 151200
ctcattacta tttagaggct catgcttgta ttaccatttg cagcagggat ttttgcctat 151260
gccagtattt atttggcttt cactttctca ggcatttcgg cctttgtgca tttctggagc 151320
caataaggca aatgtgtgag tggtggcatc ctttcttaag gttacctatt atgacttttc 151380
cctggaggtt cagcaatgac tttttgttttt cacattacac acttcttcag ttgtctgcta 151440
tatgcaggac actctggcat gatacaataa tgtctaagac aagatccctg ctattaggct 151500
cttaaaaatc ttcttggagc gaccaaccac atactttat acaatagagg gagtagctgg 151560
agtgtatcag atggctttta ttaatgttaa agggtggaat ccaaaggtag ggaaagtcat 151620
gagccttggt atttatggag tgttttggag attacttaga ctggagcttg aaattgctat 151680
tttgttagaa acagcagttc gtccacattt agagccatac tttccagttt ccctttcctt 151740
ccaggtgacc ataggaaact gatccggtca gtgagatgta agtagaagtc tcctaaaaat 151800
ttatgatcca tcggcattgt gcatttcttc ttgttgcttt cctctttcct ccttcgtctg 151860
gcctggaatg tgaaagtgat ggctggtaca gtagcagcaa ttgttccaag tgaggaaaag 151920
gaaaaggcat gtgaagacca cttaaaaatt ttgggcccta acatattta tcccctgaat 151980
caatggcaac ctaccttagc tttgttcaag tctctatcta ctcagatatt cttttactta 152040
ctgctgaaaa caattttta actgattcaa atgtatttag cactttggcc atattgtcat 152100
gtgggtaatt gtcaggattt cattcatatt tcaaataatc ttcatcacta tattctaact 152160
agatgcccat atcactccct aatatgagcc aatctttaa gctggggggg aggattgagt 152220
tagaaacaaa cagtcaggaa tgactgacat tttccccctc atctagaccc tgtgttttca 152280
ttttacttcc taataaactc aaagatattg gaattcagtt tttatttctc tttaattcca 152340
ctagaataca gatgatagct tctataaaag cactttccct tccccagctg tccactcttg 152400
gaattctttg tccatctaca caactttttcc tcaactttat attgtttgt cttttaacac 152460
ctaaagacaa acacaaactt agctaggtaa gaagagggaa atatttctac tattagatga 152520
aggattataa aagaaaggca gagaaacttt ctaagttgta atctgtcttc tagcttcaga 152580
gtccctcaaa tttttaagga ccttttctgg gtccttaaaa acgtaaaaac taataggcaa 152640
tgtagtgagt aagttctgtg aacagaagga tcaccaggga cacagcttct ggctgggcta 152700
gagtgtgaac caagtgcttt atatctggca ggcatatggt cagagggagt acgtgattct 152760
atggtttttg ttaatcttaa ctcgctggga tctactctca ggaactggtc aacctttct 152820
ttcctgttat ttggatgttg gccttcctaa atttgtctaa atttcttggc ttttcctct 152880
tcgtttcctt tttgatctac ttttgggaaa ttctcacatg tatttcccaa atcttctatt 152940
gggttttct gttaccctgt ttttgtttg aagaaacatt ttgttcaatt aggagggtgt 153000
tgcaagaatt gcaggcaata atcgggaatg tctgagaatg gggtggtagg ggtgggtgtg 153060
gtgaggtgaa gtcatattct ggatgtgttt ggaatgtgaa gccaacacga ttcatgatgt 153120
gttggatgtg gaaggtgagg ggaagggagg aattaaggac agttcctctg aacaccaagc 153180
agatggaggc tccgtcatgt aagacagaag aacatgtata gagtgtgctg tctgttagac 153240
acccaagtgg tgatgctgag aaggctgttg gttctataag tgaggagttc aggaaggagg 153300
tcggaagctg gagatgaaag tgctggagta tttcaagccc accgtgagac tgggcgagac 153360
caccaaggcg gtgagtgtag atagaggtaa gaaagggtgg cagtagtgag ccctaggaca 153420
ttccaaaaat gagaggttag ggagagaaag agccagcagg ggagactaag gaatggggaa 153480
cattagaagt aggaggaaga ggaagagaga gtggtatcct ggaagctagg ataaatgttt 153540
```

-51-

```
agcacgtgta tcggaaggaa tttataactg tgtcacatgc tgccaagggt tgagaaatgt 153600
gcatttggat ttcacaagat ctaaaacact ggtgactcag taatcagagc aaagacttga 153660
tgagtgggtt taggaagtga tgggcagaga agaaggtggg gacaacaagt attgacgaca 153720
ctttgtagga gttggaagag ttttactgct ttattttttt ttcctttttt tcccccgctc 153780
tggtttctaa catcccttgt agaggcttcc catagatgat ttgatccttg gctgtctgtt 153840
cttgcttaag tctaaaaggt gatgagaagc cctgagtctt catgttgggc tcttggactt 153900
tgagttcagt gtagcatttt cggtgtgggt tttttgtcgg gtattcaccc atgtctttat 153960
cttttggtct ttttttcctgg gatggagaga tttcctggag acttcccatt tctggcttgg 154020
ggtgtaaagg cctgtctggc agtgttctgg accctaaatt gggggaggag ggctgaatgg 154080
aggtatggag gcttttgtat tcaacatgca gtactccaca tggtccctgt gtattcagca 154140
tagcaaccta tcctacaatt gtgattgctg tgtctttgtc cagagactta gatttaattt 154200
ctcaagaaaa tcaacctgat gaagttggga aggacttttt cagaatgagc atgtaactga 154260
ctgactggca gcattcatcc agtgctcctt gtttctgata ttccttgctt taccctcagt 154320
tggacaagtg cctgttgcca gttccttggc cttcagggtt ggtgctcagt tttctcagtg 154380
aaagttatgg ttttatcatt ttaaggtcta cgaaactgag tagagctggc ttccacattt 154440
tgttgctgtc atctcatctt ctttcttcca gtccttatgg gtttactttt ttaaatatgt 154500
ttttactata gctttagtga aacttcagga gagaacaaaa tcaaatgtgt gtacttcctg 154560
tgccatctta atcagagatg cttcccagca gtacgtatta atacatatca cagtgcaaat 154620
ggaatgaagc aatctgaatg ttaggtgatg ctattaagat ttagaccatc tatttagtag 154680
tcgttcactt tcaaactctg tcactttgag gatctttttac acctgacaac gcagttcttt 154740
ctgctgtttg cacaagctct accttgtgct tttattgtgg tgtaattgtt gtgtagttat 154800
ttgtcgatgt gtctttctac ttcactatac tgtcagctct tctagatggg ggagtgtgta 154860
taactccaga ttcccaaaat gtttttgtagg acatttacaa aagagataac aaatactgtc 154920
agatacattt caattacgca tccccaaaat gtaaaagttt ctatttcact gaaatataca 154980
gtgaaacaaa aattaactgc ttacatgtcc tcgtcgtcct gattttaaag tcgaaatgac 155040
atgctccctg cagttcctca gagagatctc ttacaaaatg tagtttcctg gtagctagag 155100
taagatgaca aacctgactc ttaaatgaga ggatgcttct gatctctgct acataagatg 155160
agtgtctgct caaacaaagg tctttgcttc tcagcagctt gcaaagctaa cttcatcaaa 155220
gcttttcctg tggcttctgt attttaaatg gggtaaagat gctttcttca agcccttata 155280
ctctgccagt gaaaagaggg catgaaccgt aaatatgggc tgatttgtac tcattttgtg 155340
tttaagcttc tgctgactct acttctcttt ccatgtactt taacccaaat tagtgttaat 155400
ggcttccctc tggttacttg tttagtcttc tatgttacta tcagtacaac tgaaactgtc 155460
attttttcttt ttgctgagaa tgttttcaac ctggttcatc tgaaacctct caatctaaga 155520
tactgatttg gagagagatt aaaaaaaaca ttttccatta taggaatgtg aaatgggccg 155580
taataataat cacaacaacc aacattttct gagtgtttgc tttgtgcgtg gcactgcatt 155640
tgacttttat tatttaatct cctgcaagaa ctctgtaggg caggtcctct tcttattagg 155700
tccattctgc agatgaggaa cttgagactc tctgggttat gcagataata agttgtgtgg 155760
tcactgtgcc ccactgcctt ccagtgccat caggtggcaa tgtgacatga catattatct 155820
ttgtgttctg tattttttgag ctatgatgtc agctagagtg aagttagtta tttatgaaag 155880
gacaatcaga gtgatctcaa agaaaggtca gtttatccag taaaattaaa ggcagagttg 155940
attttcagga attgctaacc tcagcctgtt ttagcctttc agcattcgag aaagatgttt 156000
ttccaagtct tttgtgtact gggttcttct agatagagaa aggatacaac agtgaatgaa 156060
gcatgaccat gtaattatgg agggaagggt ctgtccatat tgtctcacac gtctctgtat 156120
atctacagaa cgtatctcat atgatctcta tttatagaaa tgatgaggtt tagctgattt 156180
gataggttat gcctaaacca gaagccagcc ttcctgacta gtgcactttt tctttccact 156240
gaatcatgat gcttctccat gtcttttgtc aacctagagc ctaataggag aataaaaaca 156300
ttcgaattaa tgaaattaac acaaggtaga gacccataga gcaacacaag ttggaagctg 156360
aagtccaagg aacagagagc catgggttag caatgtgttg tgatgggcag cccctcagat 156420
ggtccctgga gatccccacc ttctgagact cacggccctg tgatattccc tagcccttat 156480
atgtgggcta cactcacgac tcacactgaa tagaatagaa cagaacaggg gtgatgggat 156540
gtcacttcca aaataaggtt acaaagagaa ggaggccctg tctcgtatgc cctttctgtc 156600
tcactctaag ggaagccaac taccttgaga gttgtctatg aagaagccca tctggcaaga 156660
aactgagtca gacttccagc caaccagtag tgagatgctg aggccctcag cctgaggaac 156720
tgaatcctgc caacagcctg tgagtaaggc tggaaacaga tcttcctgca gagccttcag 156780
atgagaccgt agccccgcc aacactgtga ttgcagtctt atgggagacc ttgaggcaaa 156840
ggcccctagc tgagctgcac ctggatttgt gacccacaga acgtgtgaga taatccatgt 156900
gtgctctgta agcccctaag ctttggtgta acttgccctg cagaaatgaa taacacactt 156960
ggtaataaac actgtgagat tttctagttt ggggcatctt taccaccagt ttagcaggtc 157020
acacaggaaa gattaaagta ggtgactgca gtggctggga taagtgttca tggcttatga 157080
```

-52-

```
aaggaagggg ccatcaagca cagccctgag agactgctcc agtcctgtct catccaacag 157140
atccctgatt ttaaaaaata tcaatgtaag gcatgtacta acactgttcc atagcttaaa 157200
atgttgcatt caacaagagt aatcctatca tattgaatta tacaaatagg ttgggcaccg 157260
tggctcatgc ctgcaatctc agcactttgg aagcctgagg tgggaggatc acttgaggcc 157320
aggagttcaa gaccggcctg ggcaacatag caagaccttt ttctctacaa aaaaattaaa 157380
aaaatagaaa tattatctgg gcatggtggc atgtacctgt tgtccccgcc acatggagag 157440
gctgagatga gaagattgct tgaacccagg agtctgaggc tgcagtgagc tatgatcata 157500
ccactgcacc ctagcatggg tgacagagtg agacctgtc actctgtctc tctctaaaaa 157560
aaagggatta cacaaataaa gtgaactact taatctggct attcaaaata tgtgaaagat 157620
caacaaattt gtctaataat gttttgttga agtgctttgt tttaaatgag ttccttttaa 157680
ggcacattta aaataagtcc tttcccttct gtgcagttct ttgaaagtat agagacagga 157740
ttcattttat catgtaaaca ttcatacaga tagattactt tgctctctag cctgtgggta 157800
attcaacatt tgtagtaagt tagaataaga agcatgtacc acatttctgg tgctgacaaa 157860
ggcagccacg gaggagaaca cgttaatagc aaagaccaag tgtccaagga tagacacctg 157920
cctgcgcaca gtcaagagtg ggactgtttc ttatgttgag tctataatgc ttggttgttt 157980
tgaattgctt tattctttta tttttttaat gtaatgcagt catcgatcaa aatcttaaaa 158040
tcaaaagaaa acagatttct ttttctgttt ggacatttg agacattta aatatcttag 158100
gttaaattga cgattggact tccaaaacag gccatttcat ttttcatttt ttaacagcat 158160
gctttaacaa caatgacatt ggatcttagc gagctcatac cggtggagca agttcgtacc 158220
ggaggagttc atgatgagaa tagctattgt gaaattaact tttaactatt gaacgcaaat 158280
gtttagtcct gaacctagtt ttaatttagc acctagtttt aatctaattt ctgaaccaat 158340
gtgtttacag gtaacataca ccttaaaatt aatcacaccc attattccaa gcctttctga 158400
attatttttc tactatataa ttacttattt tccccacatg ataagcatat gctataaacg 158460
aaagttatcc cacttgataa agtctcagag aagtttagtg tcttgatcaa agacacacag 158520
ccatttggta tgaaagcctg aaagattact atgttctact ctctatctag acattggcat 158580
ttgataaaat cgtagacaag aattgttgtc tattttggtc tggagtgatg tctgtttgtt 158640
tggttttttt tttttgtttt tttttttttt tgagacagag tctggctctg tcacccaggc 158700
tggagtacag aggcatgatc ttggctcacg tagatcttgg cctaggtaga tctaggccct 158760
ctacctcccg ggttcaagtg attatcctgc cttagcctcc cgagtagctg ggattacagg 158820
catgcaccac cacacctggc taattttgt attttagta gagacaggat ttcaccatgt 158880
tgtccaggct ggtctcgaat tctgggcctc aggtgatccg cctgccttgg cctcccagag 158940
tgctggaatt acaggcgtga gccaccacat ccagctggag tgattagtaa cacgtggtca 159000
tttgtaggtt gtttaaagga agtggtaaat atctccgttg ttttaatcct ggaaatgtag 159060
catatttgac aaataagtga ataatctttt aatgtgcaaa aaaggtctat agttcctctc 159120
aacacctttc tccttgaacc cactcacata aaaacagaac agatgcttcc tggttaaatt 159180
gatttatata tattttttgag aaagtgatta aaactgcatt gtagacctgc aggggtgg 159240
tgggggtggg aattgtaaag agtcgcagac aaggatgggt gttactcagc atcttaaagc 159300
agcaaggagg aaatgagtgt gagatatctg acctccaatc tgaaatgtaa tcacattaac 159360
accttgctga atattagaga ataaagtaat ctgaactaaa catttatcac tgaatattct 159420
tttaaatttt ggatttatct gaaatctagt cttctgctta atcatttaaa tgctaataaa 159480
caagacagag tataatgaag aagcccaggt agttctgtac caggctctct tgtttcactc 159540
taatggttta tcattcaggt aaaggttcca tccctcagta gatgcagttg gaatggattt 159600
tttgtttttc ttttttttgg atacacgggg aagctaaaac acaaattgaa aaaaagtcaa 159660
ctcgtttaac cttgggcttc atagcaaggc tcacttgagc aggaaggatg ttctaatagt 159720
tgaatttatg tgaaaagttg gcatggggag gtaacattaa ccaactacat gtcagaccct 159780
tttacttgtt attgcctcta agccccacaa aaaccccaaa ccaaaacttg gctaatattt 159840
tccattattt ccttgcccct gccccataaa ggaactgaaa cttataaaaa gtaacttact 159900
tgaagtaatg cagcagcaaa taaaaattta aatttaaact tagtttagtt cgattccatg 159960
ttctatgttt gttccacatc aggaaacagc atcttgtaaa aataatattc cctttggagg 160020
aactgtcacc ttgatataat ttcaatactc aggttctttc ctccgaaaca aggctgaaat 160080
tttggacttg gaaccaagaa atttctgagg agttttttct ttgaatcttt ttgccaccga 160140
aataaataaa tacataaata agtaagtagg taagtacata agtaaataag taaaaaataa 160200
aaaatgcatt cagtcattct tagcatgatc tagaactctg atcatggtat tctcttctct 160260
gtgcattacc agttgtctgc agactttcaa ggctgggcta ttcagcatat tcccacccaa 160320
atagctccaa cttcaaatca ttattactca agtaactgtt aacacttcta gtatactagt 160380
gtaatccctg atgtatagga aacacctcac atttgttgaa tacatttggg aatgcttatt 160440
tccttgattt tagaattcca tccattgaaa atgtaccatt gaccaaatca cagatttttaa 160500
ggaagggaga aatggaagat gctactaaac gtctagtaac atagacattt tgatctaagt 160560
cctgatttct gaaatgttag catatgcttt ttaaactggg gaggaagtat ggcacttcga 160620
```

-53-

```
taattgtaat ctttcccaaa ttgcttcttt tacctttatt tcctgtctag aatttctatc 160680
actgcatcca ttcatctgtc agtatttaat ctttctttct ttttggctac aaaagcatga 160740
ttagatttttg ccctgaaaac tgctcgttcc catttgaatt gtgttaattt ctctcaggtc 160800
aactagggggg aagttatatg gagaaacagt aacagtgctg ctttccagtg agattttctg 160860
tggatgagta aaaaatgaga tttcatgggt taggaccctt tgagaacttg tttaggagca 160920
cataacatgt attaagatat tcattattaa gaatattctt tcgatctcat gtatatgaca 160980
ttgcatgaga tagaaagatg agaaacctca ggatattcac aagtttttatg tggggaaaac 161040
ttgtgggtat aatagtatgg tttaaaatga tggataaagt caaaggacaa ctgtgtactt 161100
tatgagcttt gaattgatca tgaatgattt tattgtgttt ctttgccttg ttctggggat 161160
gaaatctgac accaagttga cccccttgcat ttcctttata gttttcttat catgtagaga 161220
attactggat tattagctag ctgatgaatt ccaaaatcag aaacctttgg attcactgta 161280
agatattctt gaagagctag actctgcaca aattgaaaga agataattcc atacataaat 161340
ttactgtttt tacttgggtt ttgtgccttt tcttacatat tatcacagca aaattattag 161400
ctaatccttt ttaattaatt tttgaaatat agtcaaaggt atttggactg tgcctttact 161460
actttgaaac attaaagttc acgatatttt tgccttatat ggtctaatga ataagatttg 161520
tctgagactc ttactcttag atatgtattt cacacctaat ttttttggaa attgagatag 161580
tggattatta ttagggtgga agtatcatat tctacttggt acaatatttt ttggtgaatc 161640
tgggctccct tcccagctcc aaatacaaat gctaaattac cttgtttaga tttcttatcc 161700
atcctgtgct tcgatttccc acttgtcttt ttaaattctt tcttgggatt ttgccagagt 161760
caactagaaa atgtctcatg tgaaactttg agagaagaga cattgtaaaa tgcctcttat 161820
caaaataaat atatccagtt tgtgattatt cacttggtga tttttgtccc ggaaattttt 161880
aactccccaa gagcttcact ggctacttgg cacaaattct atcaaggcaa attcaccttg 161940
tttctaccaa atatccatgt agaaaacaca gaatgatttg tattaaccta tgcctaaagc 162000
aagtaataaa gcacacctac tccaaaatac aatacaaatt tccccaggca acaaatgcgt 162060
aaagaaaata ttgctgattt ttctattatc tatcctgctt cttccttgta taaccatggg 162120
tagtatatat ttgaaggatg gatttttaag gtaggatctg tgctaatacc actaccaata 162180
taaaagattc atcctttgat tataatattt tgaggaatta taataggaaa tgcccccatc 162240
attttttatac taagtccatc tgtttaatga ttaaatttca cctttgtcaa aggtcctaga 162300
tatactggtg aatttaagca tttattgata taaaactggg atgtagcatt cactggagtg 162360
atttgcttat tttgctggta tgaagcagat ttttcaaatt cattcagttc ggctgtgaaa 162420
aacagacctc acagtttctc tctgaccttt gcctgggcca tttttcatggg atttagtatt 162480
tgcggagcaa gtgaaagctt taacacttga cacctggccc agcgaaattc ctggtgcagg 162540
ctttgcagtg ggggcaaggg gaaacattga agttaaagcc cctgctccct ctggctgctg 162600
agccgtgagc ctgctgcctg agatggtcaa acatcttttc acaggtggct tatggcaatt 162660
tatattcttc ttttttttcc acagctgttg tgaacttgga taattctgtg gttgacctgg 162720
agacccttca agctctctat gagaatgtga gtaatagaag gaattttatg tgtgagtata 162780
taatatgtac acagtacatg tctatgtgca catataggct ctttgtttta aggtcctcta 162840
aagaaatttg atccgagtgt agtgaatttg cctaagtagg tgtttgttac aatactttct 162900
aggaacatat caaacaaatg tgtggtctca tggtttgaaa aattgtgaat caaatcatat 162960
tgcatatgag gtcattcatt attttttttaa atttaaataa tagtactgat gtgggggcta 163020
acttgagcca agcattgttc tgtgcacttc atacacacac acacacacac acacacacac 163080
acacacactc acacacactt aaaattttaa aatatgtaac tgaaaaagat tgaatacatt 163140
cattccaggt gtatgtattg aacatattca tgctgagttg atatacacat tgattaccac 163200
aatcagatta acacatccat caccacccac acttatatat aagatctcta gaagttattc 163260
atcttataac tgaaagtttg tacctttttga ccaatatctc cctatttttcc tacctcccac 163320
ccctgggcaa ccaccgttat gctttctgtt tctatgagtt caagtttttt agattcctta 163380
tttgtctttc tgtgtctagc ttatttcact tagcattatg ccctccaggt tcatccatga 163440
tgttgcaaat ggcaggattg cttttctttt tatgggtgaa taatattcca tggtgtatat 163500
gtaccacatt ttctttatcc attcatctgt tgatggacac tggttggttt tatatcttgt 163560
ctcttatgag tagtgctgca gtgaacatga aagtacagat atctcttcaa catactttc 163620
atttcctttg gatgtattcc cagaagtaga attgctggat catatggtag ttctgtcttt 163680
aatattttga gcaacaccta cactgctttc tattatggct gtaccaattt acattcccat 163740
cgacagtgtg ccagggttcc ctttttcttcg catcttcacc aacacctgtt atctctctcc 163800
taatagcctt gccaacagat gtgaagtcat agctcactgt ggttttgatt tgcatttctc 163860
tgatgaactg tgatcaaatg ctattattat caccctgtt ttacatgagg aaagttagag 163920
aggttagatg acttactcag ggtcacatag ctagtgttgt gatatagctg gggtttagtt 163980
cattctgcct gtttctctat actgctacag tttatttcac taggtggcag gacatttagc 164040
ttttgttatg tagtactttt tttttttttt tttttaacaa aggtggtaga gaaagggagt 164100
aaggtattga aggagaataa ccatagcacg atatagtcag tgctattggg aagtgtgata 164160
```

-54-

```
tgagagatgt ctttagctag aatgtgacat taaataatat tgattcaagt agtaataaag 164220
caggttgttt tcagtgcttt tgattatatt taaggtaaag tctcagtgtg gtcctatttt 164280
gggtctaata tctttgagtg cttttttttt tttttttttt tttttacttt atttctgttc 164340
ttgcctttga tctgcctggt atttaagcct ctgctctttg gggcatggcc ttagttggtc 164400
cttaactttt ctgtctcaag tcaaataatt cttggctctg gggagaccca tgtggtgggc 164460
aggatgcaga ctctgttcct tgatcactcc cttgaggact gtgtattcaa cctgctcatc 164520
cactcttgag tttggttttt ttttttttaac atatgttata tggtggtctc atctgtgaga 164580
ttgagaccga tgtaagacaa aatatgtctc atggtgcatt gtacagaatc tgtgggccaa 164640
gtgtagaatt ggtacccatt aagcatggtg agcataagca ttcagtgaaa ctgagtcaga 164700
aacaaagatt gagagggaag ctttcagtga tttattatac agttgtcact atgcaaaggg 164760
aaaactggaa aaagtaaatc gtgtgtttag tatattcaca ttccaatgaa attggtattt 164820
aaaatataac cattgggagg tacagagagt tttcatttct cttgagtctt tcatactaac 164880
cctcttccaa ccaggagggc catatggaag aaaggaggaa atactagagg aaagtaattt 164940
cttcagcagg tcataatgat ttaagatgtt ggtgtgtgtg tatctatcta tcttgcacat 165000
atacccccac cataacattt ggtgtataca tggtgtgtgt gtgcaccaat atgtgtgtat 165060
gtgtatccag aaatgaatgt cttatttaca cttgatgtat ttatgtgtag aaatataccc 165120
agaaaacaca gaacattgaa tgtttatttt atgatggttt agaatatttt atttgggctg 165180
ggtgtggtgg ctcatgcctg taatcctagc actttgggag gccaaggcgg gaggatcacg 165240
aggtcgggag ttcgagaaca gcctggccaa catggtgaaa ccccgtctct actaaaaata 165300
caaacataag ccaggcatgg tggcccgggc acgtgtaatc ccagctactc gggaggctaa 165360
ggcaggagaa ttacttgaat ctgggaggcg gaggttgctg tgagccgaga ttgcatcact 165420
gcactccagc ctggtgacag agtgagactc catctcaaaa aaaaaaaaa aaaaaaaaga 165480
atattttatt tgggagtgtt tagcctttca aagtaaagta atttcacaaa atataaattt 165540
atgactcagg acaaactgga tagctaccca gaatcttatc ttacttcatg aaagtagaaa 165600
aagtactgtg tcttagtctg tttgggctgc tataatagaa taccatagcc taaatggctt 165660
atgaagtgtt atttctccca gttttggaga ctgagatttc caagatgaag gcactggcag 165720
atttgggatc tggtgagggc cctcttccag gttcacagac tgcggtgttc ttgctgtaac 165780
ctcacatggt agaagggaca agggagctgc ttggggtctc ttctacaagg gcactgatct 165840
cattcaagag ggctctgctc tcatggccta attgcttcca aaaggcccta ccttgatacc 165900
atcatcctgg ggataaggtt tcaacctatg gaactgaggg tggggcgtaa acattcagcg 165960
tatagtatac tagctggcac tggttaaact taattacaat ttttattgct gctgttctca 166020
aactttaagg ttcagacttt cattgtttca ggaaaacaat tattttgtga gagggtgatt 166080
cacaattatt agtttaggta gtaccaggtt agccctctgc agtacaggaa cttgaaggat 166140
ccgttatgaa caataacagg tcattgtgcg tatttttatat gccaataata catatatgca 166200
aattcctgat taatatctat taaaaaataa gtcttgggaa ggcaaaaata gttgttttat 166260
ccacagcaat agctccagaa cctagagtta agtagtattt ggaacagttc ttccctaaac 166320
gtcctgtata tcaggggtcc tcaaccctca ggccaaggac cagtaccatt ctgtggcctg 166380
ttaggaactg ggccacacag cagaaggtga gccactggtg agcaagcatt actgcctgag 166440
ctccacttcc tgttggatct gtggtggcat tagcttatca taggagctag gagtacaaac 166500
cctttttgtga actgcgtatg cacgggatct aggttgcctg ctctttatga gaacctaatg 166560
cctgatgatc tgaggtagaa caatttcatc accaaaccat ccccataatg ccaggtctgt 166620
ggaagaattg tcttccacaa aactggtccc tggtgccaaa aaggttgggg accgctgctg 166680
tctatgtaag acattgttga aatcttatag tactcctttc ttcctttcct gggaattttc 166740
cacttttgc tttatgttat ctttatgtat gcatatgtct tatcttctca cttaactaca 166800
aattccttat tagttgaatt tttttttttt gaggtggagt ctcactctgt cacccaagct 166860
ggagtgcagt ggcgcagtct tggcccactg caacctctgc ctcccaggtt caagttctcc 166920
tacccagct tccagggtag ctgggattac aggcacccac cgccacaccg ggctaatttt 166980
tgtatttta ggagagactg ggttttgcca tgttggctag ctggtctcg aactcctgac 167040
ctcaggtgat ccacccgcct cgaccttaca aagtgctggg attacaggcg tgagccacca 167100
cacatggcct gagttttat attccatatt gaacaatatg gtttgtataa aatattcata 167160
ataattacta cttaaacaat gacctgagaa tagtaatgtt ttccttttgg tattattttta 167220
taattgacag aaatgaaaat ggttaatgtc attatttaca tttcaaatgc tctgctttttt 167280
ttaaacatca gtataaaagg aaatctggct ttcttaaaaa taaggtaatt tcagaaatat 167340
ttctgcagag actcagaagt gatacctttta ccatggataa agctaaccat tgctatccca 167400
gcaataatct gatcccgtta tgtgtaattt ttcaaacaat ggtttaaatt caaacggtga 167460
cattctattt tagggcaaac tgagtagatt tgcttccttc ttgttgatgt aatttcagac 167520
gtgattgcct caggagcccc tggaattgct aaggaagctc tttccatttc ccatgttacc 167580
ttagatcttt tgagtgtccg ctggactgaa aagaagcttg agcttccttt tctcagttta 167640
tactagataa tgcatactgc gatgaaccca agatggacct aagattacag aactagtagt 167700
```

-55-

```
agtttatttt ttggtgcaca aagcggaaca agttttttcca tgttttcagt tgctaataga 167760
ctgcattttt acgcaagact agtaggaata aggtggcgcg ctgtatgaag gcacatttgt 167820
ggtgtacctt ggctggaggc cttcctactt cctgcagact ctccccaaac tttacagcta 167880
tgtaatagct agattaaaat aggccactat ttcatctcca tgtgacatga atatgtgctt 167940
acatgttcca tccctcctct atcaccccaa atcacacaag ggtataccag aagttgtagt 168000
tccaactgca tgaaaccaat atggttgcta ttactaaggg gactgggatt ctaactacct 168060
cttttcattc atgctgtatc aggtaaggga aggctaggaa cccagtgtaa ctataataga 168120
agtttcatat gatctctatg ctatttaatc ccattaaatg actgttgaat gaatgaaccc 168180
tttgaaacgg gagctcagca tggtagaacg tttaggcaac atgtgatgcc agcttctttt 168240
ccatgcattt cctagattcc caacttacaa atataggaac attaagccat ctgatttgta 168300
tttaccatgt ttcctcattt gtcactactg ttttctcttt gtctaaaaaa ttctatgaca 168360
atctttgtac ccccctctga tgttccaatc aaagagctct tctcactttg tactagtttc 168420
tttctcctat ctctcctttg ttatagcatg ctcagatgcc catcaaaccg aaatgaaaac 168480
aaaataaaga gacatatata acttaccttc ttttactcat tgtttctttc attgaaaact 168540
atttctagaa agctaactaa ctgtcatgca gtttgctaag atcagtgcta ggtagtatat 168600
taggcacatg catatttgga atcgtttttt ctcttggatg ttgcttttta tcagtatgaa 168660
atattcttct tcagtttagt aatactcttt gtcttgacgt tttttaaac tgatatttaa 168720
atagctattc tattcttttg atacttactg tgtgcatgtt tttttttttt ccaactccat 168780
ctgtgtactt tcaacttccc tgtgtctctg tgtttgaatt gcatctctca tagacagcat 168840
gcatttgggt ctgtgttttt tattcattgt gataatcttt actttcttgg agcatttaga 168900
ttgtcaacat ttattgtaat tgttgttata gttggattta ggtctgtcat tttttgtccc 168960
tctaattctt ctttcctacc ttattattta catggtattt tttgctgttt tgttttaact 169020
tttatttcta tttttttttt ttagcttcac ctctttgtgt cacatatttt tcagttatgc 169080
taggaatcac aatgtatatt cctaaccttt tatactctac ttagatagaa ttttcatata 169140
aaatatagaa accttgactc catatagggc tttttgctgc ctctcctgct ccatttaact 169200
tattttgttg tgacgtgagt agcatctgta tgtgattgta tttttaaata attaaacata 169260
tttaaatata gttttttttat atttagctac atttccccca tttctgaagc tcttcctttg 169320
ttaagaccaa gtttccctcc agtatcattt tatatcgttt ttctttagcc taaggaagta 169380
tctgtagtgt attttgaaaa cacatctttt cagtgatgaa ttttcttaat tttctttcat 169440
cttagaattt ttttttatctc accttccttt tttttgaagg acattttaaa attggatata 169500
gaagtctggg ttgacagttt ttttctttca gcataataaa gatatcccaa ttacctccga 169560
tctaccttgt ctctgatgat aagtctgcca tcattgttac tttgtattaa tacataaatt 169620
gtcattttt tccccttcta ctgcctttag gttttttcttt ttattgggtt ttaatcagtt 169680
ttattgtaat ataagtaggc atggttttct tgtattctga ttgagtttga tggacttcct 169740
gattataatt gtgattttc accacatttg acagtttcca tctctcgtcc ttcaacctga 169800
aactattctt ttgtactctg ttctcccagt ttctctcctc tctggcttac taatgacata 169860
catgttacat cttgagtact ttttcacaag tccctgagat tctgttcatt agattttcca 169920
tcatttttt ctttctgttc atcatattgt gtactttcac tgattctttc ttttgctgtc 169980
tttattcttt tattcaacct ctcaaatgaa aacattttat ttctaatgct ataattttcc 170040
tagaatttttc attaatagtt cttttttttga gactccttat ctttgttaac attgataatt 170100
tttgttacaa attgaatagt tatgttcagt ttttttaaaag gcacctacac acatttaaaa 170160
gataaaccag aagctagaaa aagaaatttg caatacctgg gccctcagaa aatcgggacc 170220
cagaatattg aaaaattctt acacttatca agggacaagt ccaaagaaaa atgaataaaa 170280
gagataacaa ggcaactcaa aaaaagtaaa ctggtatgtc caataaatac aagaaaaagt 170340
gtgtattctc aatagaaagc aagaaaatgg aaataagaca tcagtaagat acttcttcat 170400
ctccagtgaa aaagtttgac agtatcaaat gttgaagagc atttgaaaaa ttagtaacta 170460
ttatatacta tattaatata atttggtata atctcaatgg gaagcaattt gcaatatcta 170520
atataattag tccagtaatt acacccttag tcatacattc tagagaaact ctttcaaaac 170580
cagttttcca accatcagac acattaatgg gtccaacact tgggtctagt cagatttgcc 170640
tgatatctaa gtataactat cagacaaatc aacctaggcc aaaagattat gaaaattaat 170700
aattagagtt tcaagctact aaagtttaat ttctttcaca taaaaatgtt agctgacact 170760
tttcccatac attttttatgc cctatatgga tataaatata gtgaaaataa aaatagggtt 170820
atattaccat tatacaataa tatagaaaga taatttctat gtagagcaag atatttgttt 170880
ttgttattgt ctctatgact aaaaaaaaaa aatcagaaaa ttaagtaaaa agaagtatat 170940
ttcccttctt attccaggaa agtaactgag cctttttgtac cctgaggctg cgctctcctg 171000
cctcagatga tctttgggga ccttggtttt tcttgatcac aaagagaatt tgctttgtct 171060
tcgtcaagtg agagagactg attataatag ttaaagtagc tgacgtgctc acatctgtat 171120
ttcttcatac agctttgagt tatggtctag tgtcctgtca tttcatcctg caggactccc 171180
ttgagcattt cttgtgggtac agatcgagtg ataataaact tttccagctt tagtatatct 171240
```

```
ggaatgtcat aatttttccc tcatagtcaa aggatagttt tactggatat agaattattg 171300
gttgaaactt tattttgttt cagtactttg aatatatcag accactgcct tctggtctcc 171360
caaatttgtg acaagaaatc tgcagagatt cttattgagc atttcttgtg tgtgaccagt 171420
tacttctttc ttgctagtgt taatattctc tctttgactt tgtctttcaa aagtttgttt 171480
ataatgtatc tcgatgtagg gctctttgga ttaacatcat tttgagttca ttaagcttct 171540
tggatgttta tgttcacatc tttcatcaaa ttggacaagt tttcagccat tatttttttaa 171600
aaatatcctc tctgttcctt tctctctttt tcttctagga cttccataat gcatatttgg 171660
tctgcttggt ggtgtttcac ggcttcctga ggctgtcttc acttttcttc cattttttctt 171720
tttctgttct ttagagttga tactttctga tccatcttca agttcatgga ttcattcttt 171780
tgcttcctca aatccgtctt taaattctct ttgtgcatta ttttatgtta gttattgtat 171840
ttttcagttc ttttcagtta ttgtattttt caccttcttt ttgatttatt ttcaggtttt 171900
ctatctcttt attaatattg ccattttgtc tgtacattgt tttcttggct tgctttcttt 171960
agttctttga gcatatttaa aacaaaattt aaaaagcctt tgtctttact ctgccatcag 172020
gtctttttca gggataattt gtattgattt atctttatcc tttgaatggt gcatactttt 172080
gtttctttgt atgtcttgtg attttctttc ttttttattt tgaaaagtgg acatttgaat 172140
ttaacaatgt aattctggaa atcacattct ccctcttccc aagggtttgc tgggttttta 172200
ttaattgttt ttatttgttg tttttttgatt tttgtagttt atctttgtgc caaggataag 172260
cctgaagtgt aaacttaagg tcttctcagg gcattttttca gcctgcacct ttccctgggc 172320
acaagtggtc actttctaat tttcccgata tatatacagt tgcttttaaa tgtcctaatc 172380
tttaatgtct ggctcccaaa aggtgggaaa gattaaaagg aatcatggaa aaaagagggc 172440
tctggccgtt taatcccca gctgtcactt caaccagata aggaggggca actacagtgg 172500
ggggacagag gctcaacaat ggcctcctgc ttctttgttt gcacctgagt gatcagaagc 172560
agtaatcagg gatcagagca cagatccttt atatttggaa ggtgaggaca ttgggaggtt 172620
ggctcacttt ggctcctgca ggctgtgtgc aggttgctcc agaagcgcgt gcacagctgc 172680
ctgccacagg gccgggagtg ggggataggt agctgctgat ctgctaagag ctgacattga 172740
ctaaaattaa ctgtaattta agctccaagc ctttctttgg aagttgtaag accaacagta 172800
gacccccaaag tttccaacag attctgctag tacaattgtc tagatgggga aatagatccc 172860
tggcacttttc tactctgcta tcttcccaga atcctttctg gggtttctaa ttttttcatt 172920
cattcttaat atatttttgt tcatatcatg gagcatagtt ataatagctg ctttttctaaa 172980
gacgttgtct gataaatga acatctgggt catcttgagg ttggcatctg ttgattgtat 173040
tttcctttga gatttagtca gattttcctc tattttggca cattggataa ttttgtatct 173100
tggacaacat agtctgtgta actgtattta atcatttctt ttcatttaac atttaaatga 173160
gcttattact ctctgtaata caagatatat tcaatctagg ttttgctgag aaagaaactc 173220
attcattttt gaaagcatgc gtttcccagt attgtgtttt tcaaactggg ttcagtgaaa 173280
cactattgtt ttgtagtcta tagtaaaaaa catgttgcat aatcaaacag gttaaaaata 173340
agttaatcaa ataagttaaa gttaaaaata aaactgtgca gagccataat gtatgcctaa 173400
taaagtggta gtttccaagt ggaggacatt ttaaactata ttcttccttc aattaaatta 173460
ttaatctagt gaaaacaata gtattacgtg gtttggaaaa tgctactata gtgcagtcta 173520
aataaatcca gacttgcaga aacgtagcta ttgtataatg ccaaggaatg tgtctattgt 173580
gtattttttaa tttaacatag ttactatttt acttattacc aaataattac atgtatatcc 173640
cttttatgta tctcttccac ttatacttct tgtcataaga attattacat gaaaaggtca 173700
tcttagtagt gtagcatcat tattgtaata ggatataaac cattataagg tcagcataat 173760
tgttttaaag tcattagtca tacagttttc tagactagat atgcttgtaa gttttttttt 173820
ttttttttgag gtgaaatctt gctctgtcac ccaggctgga gtgcggtgac gtgatctcgg 173880
ctcactgcaa cctccacctc ctgggttcaa gtgattctcc tgcctcaacc tcctgagtag 173940
ctgggattac aggcatgtac caccatgccc agctaatttt tgtatttttta gtagagatgg 174000
tgtttcacta tgttggccag gctggtctcg gactcctgac ctcatggtcc acccacctcg 174060
gcttcccaaa gtgctgggat tacaggcgtg agccaccgca cccggctgct tatagttttt 174120
attttctttt tttaaaatcc attttaattt tagattcaag ggatacatgt gcaggtttgt 174180
tacaagggca tattgagtgg ggctgaggtt tgggcttccg ttaatcccat aacccagaag 174240
ctgaacatag tatccaacag gacatgtttc agcccttgtt cctctccctc cctccttttg 174300
gagtccccag tttctagtgt tcccatcttt atgtgaaccc aaaatttaac tcctacttgt 174360
aagtgagaac atgtgatatg tttctgcata tggaataaca gtctctagct gcatccatgt 174420
ttctgcaaag aacatgactt cattcttttc atggtgttgt agcattccgt ggggtatatg 174480
taccacattt tctttatcca gtccactgtt gatggacatc taggtttatt ccacgtcttt 174540
gctattgcaa atagtgctgt gatgaacata cgagtgcctg tgtctttttg gtagaatgat 174600
ttattttcct ttgaatatat acccactaat gggattgctg gattgaatgg tatttctatt 174660
tttagttcat tgggaaatct ccaaactgct gtccacagtg ctggactag tttgcattcc 174720
caccaacagt gtataagcat ttccttgtct tcacaacctc tgtaacacct gttatttttt 174780
```

-57-

```
gacattttag taatagccat tctcactggt gtgagatggc atctcattgt ggttttgatt 174840
tgtatctctc tggtgtttag tcatgctgag tacttttct taagtttagc tgcttgttat 174900
catcttttga gaaatgtctt ttattgtcct ttgccacttt ttaatgaggt tgtttccttt 174960
tttcttgttg attcatttaa atcccttata gattctggat attagtcctt tgtcagatgc 175020
atagtttgca aatatttct cccattctgt tggttatctg tttattcttg tcaagagttt 175080
cttctgttgt gcagaagctc tctttggttt aattgtgcca tttctctatt tttggttttg 175140
ttgcatttgt ttttagggtt tcatcataaa tgtttgccta gaccaatgtc taaaagagta 175200
tttcctagct tttctcccag agttttata gtttgaggtc ttacttttaa gtttttaatg 175260
catcttgagt taattttat gtgtggtaag aggtagtggt ccggtttcat tcttctgcat 175320
atggttagcc agttttcaca acaccattga ttgaacaggg tgtcctttct ccattgttta 175380
tttctgctaa ctttgtcaaa gatgagttgg ttgtaggtat gcaactttat ttcaaggatc 175440
tctgttctga tccattgatc tgtatgtcta tttttgtacc atgctgtttt ggtaactgta 175500
gccttgaagt atagttagaa gcccagtaat atgatgcctc tggctttgtt cttttactt 175560
aggattgcct tggctattgg ggctcttttt tgtttcattt gaattttaga atagtttttc 175620
ctaattctgt gaaaaatgat gtttgtaatt tgataggaat agcattgaat cagtagattg 175680
cttcaggcag tatggatatt ttaatgatat tcttccaacc catgagcatg gaatgctttt 175740
ccatttgttt gtgtcgtcta tgatttcttt cagcagtgtt ttgtagttct ccttatagag 175800
atcattcacc ttcttggtat tcctaggtat ttaattaatt aattaattat tgtggctatt 175860
aggtacatta tagttttaa aatattctgt gttaaagaga aaaaagtca atgtgaggga 175920
aaggatgttg cccaggatgg tgggtacaat tttaaatatg gttgttattt gaaagatgac 175980
atttgaacta ggaattgcgg gagatgagga agagaagcca tgtgtaaatc taagagacca 176040
tatcatgcct gaagtgtgag caagtctgat atattcaggg aacagctgga agcccacaca 176100
gctgaaatgg cacaagggag gggaacattg tagaagttac ttagagataa attggtgggg 176160
actagcccct ctagggactt gtagaacttt gtaagacttg aacttttct ctgagtaaaa 176220
tgggaagtta acacacagtt ttggctagag gattcatgtt tcaaagcttg tccaactcgc 176280
tttattttgt tgttgtcatt ctgttttgtt ttgtttcagg cttttagcag cctgaagcca 176340
tggtgtttag tttcgtgtct agtgataagc agaaaagagg gacgaggacg gggctttact 176400
ggcccaacca gaaacagaaa ctaagaaccc acgactgtat tctgtccctt ggacacccct 176460
gtaagaagtt ctgacaacta ggaatagact gtgagaagca aggtggagtg tcagagacct 176520
ttcagagtta agagatgata gtggcttgga cctcagttaa gagatgatag tggcttggac 176580
ctcagtgtac acagtggagc tgctgagaag tggtcagatt ctggaactat tttgaagaat 176640
atgccagtag aatttgccag cgggctgggt atggactgtg agagaaaaca agaaattgag 176700
agtgatccca caattttggg cctgggcaat aggaagggat tgccattagc tgataagtgg 176760
aagcagcttg gtagaaaatg gggcaatgag aattctgtgg ttatgttagg tttgagtggt 176820
ctgttccttc ataattgata tgcagacaca ggggtctagt agtctcaagg cagaaggtgg 176880
agagtgaggg tatgagtgtt agaaagtcta acagtatggg ttcaattggg acataaacca 176940
cagactaata taagcagaag agtttattat aatgaatgat taacctatga tggaagagta 177000
caagaatata gtgataactt taacagcacc ctagggatga gtaagcatac ccaagttcgg 177060
ataagcttgg aaggggggtcc cctctctaag actggggtgc agatttcatt ggagaaggtg 177120
tgtttgcagc ccactggttt gcctgggcca tagctggtca cgtctctggg caagcaagaa 177180
aacacacttc tgggggcagg tgaactctag ctagtgggca ggcatgcagg agttaggatg 177240
ctacagtgaa cgtgaagccc agagtgtaca gtatctatgt agggagggcc caggaaacaa 177300
acctcagggc acaggcaagc cttggctggt gcaggtgcac agtgcgtggt gtctgcattg 177360
gaggcaaact ggtcactgag tctaggtcag gactgcaagg ttgccaaagg gctctgcact 177420
ccgggtatgc tgctggggtg tggcagagca cccccagatg tcattataca cccacaccgc 177480
tgaccaattg tgctgcagaa aaggcaaact gcataccaga gtcaggaaga ggaccccctt 177540
cctctagcag tgccctcca tcacctccta ctggcaaagc ataacctcat attcactgta 177600
aaggggggacc gggagctgct gagtccagtc cgttatctcg gattcagttc tagaaggcaa 177660
actgagggat gagaggcagt aactggcaca gatggtaggg agggttgagg ttttaggagg 177720
tatggtctca tctggcatga cagtcacgtg tgtttgtgac ttaatatggt aggtgtcatg 177780
ctcatatgaa agtgtctcta gaaacaaaaa gtgacatgca cgggcttaga cttggcttga 177840
gtcctctttg gaaatctttc caactttatc atgttggtgt aatggtaatt attaacttca 177900
ggtctgacac agtgtttgaa agatagctga atagtcttaa ttttgcctta atagtttaat 177960
aataacattt gagggtacat gtgaatttta tctagaaaaa ataaacatat ttaaactcaa 178020
ttttaaaaat aaatatatgg gtaataatct tatttggcat tccacttctt atccttgaag 178080
aaaaaaatat cgctaaccta aatcctttcc cataaataca acacacttc ttttgccag 178140
atgcttaaat gtcattggtc tgttttaaag taattctatt tgatctctgt gaaacagatg 178200
gaagtatttg ttatacaaac cttatttaga atgtaatctt ttttctctc ctgattgcat 178260
atgtttggca gtgagctttc tcttctagat gtgaatgaat cttggttagc ctccaaatct 178320
```

```
aaacacaccc taatttcaaa aaccacaatc ctgaggactc aattcctgtt tactgaggaa 178380
ttaaaaccta gagaaaccac atagttacta aatgcagtac aacctagtga gtttttaaaa 178440
acaaaaatca ttacagttta tttagggtta ttgactgtca ttaagttcag agagtaagat 178500
ctttttcctaa gcagtatata atatttacag ttggttaact atatctattg cttctgaatc 178560
ttgaaatata ctccttatat ggcaaagtga gcttgtgagg tggataggaa gcagtagact 178620
gtggtgtggg gaatgaggga gcagatgagg aaaattactc attttttaa gtgtgttgaa 178680
tgactaactt caattcaaaa atgtgtctgt taaaatattc atgtataact atcagttgca 178740
ttgtgttttt ctgaaaatca ttttttttctt tctttcatat ttaagaaaca aataaacaaa 178800
aaatcttaag tattcaacca gaccaaaacc tggacatgaa tactattagc agttcaactg 178860
aagaaaaata catgaaaaaa gataggaagg gaaaaaattc aacacccct ttgtcattaa 178920
acagttctaa tccaattaga aggaagaaaa aaaagcaggt aaagtagaaa gaattagaga 178980
tctaaattta cacttctcag gattggattt cacaggcata ctttatagtt ttagcaatct 179040
ttgcttaaag attactaggg tagtagttga cataccataa acttgaatct ggaagaaggg 179100
tatcatgcat gccacatgat acagcatcct caaaagtgta taccatatta cattagtgaa 179160
aatgaattgg attaactgtt ctgtgttccc ataacttcct agaggaattt aattgattca 179220
tgttttaagc aacatttaat catcagtttc ttcaaacaaa aatgagagga gtattgactt 179280
tccccacata gctgttttaa aaccatactc tcaaatttca ttgtttttatt gagttggttc 179340
atggaatccc tgcaagtatg ctcatttttca accataaacg tgcttaaggt gaatttcaga 179400
attaaaaaaa aagaaaagct ttggatcttg aatcacttac agattgactc tataaactta 179460
ataaaaaatc agaaattata tttctttctt gttaatctaa ggtgtgacac tgcctgtcac 179520
atcataaaat tattgactga ttttttgata gttatgcttc ttttggataa accaactata 179580
ttgcataaat tcctggaaaa tgaaaattaa aagattaaca cagctgcatt ggaaatatgt 179640
ggaaataaat gatccgggat tgttcttata tgtcgttcct gttattttac tttatttat 179700
taagagacaa ggtctcgctc tcttggccag gctggagtgc agtggtgtga tcatagctca 179760
ctacagcctt gaactgctga actcaagtga tcctcttgcc tcaccctctc aaatagctgg 179820
aactacaggc atgcatcacc atgctggctt tctcttattt taatatgata tttttctttt 179880
attagttgac atccaaaagg ctgacattgt agagcagaga gcagtttcat gttcacattg 179940
tggaatttat ggccatttac tttttgtagg cgggtaggtt ctctgagcac ttctccttca 180000
catttgtttt tagttttgca tggtccgtcc actttaccat cttgtagccc tctgctctcc 180060
agccacccac ccccttttag tttctcaaaa ccatgcagat cctaccacta gaacagcact 180120
gacaaaaggt gttccttcag gcaggagatt tccacttacc atctccttct agtaaaagtc 180180
tcctgaatct tcagttgtca ttctttttctt ccttag 180216
```

```
gtcaccattt ggaatagagt ttgcagtagg aatagattat acatggcttt cgtgttgtct 60
catttaattc tccacagcaa cactaatgtg ggtatttttt tctttcaaca aatatttact 120
gagctcctcc atgtacggga gataagtatt ggggccaacc ttgttacctt tgtcttgaat 180
taccaatcac atttcataga tgaagaaact gaggttcagt gactgaccca tagtaagtta 240
tcaataaaca gagtcagaaa tcgggtttag gactcaaaac ctttccatca caccactagg 300
ggcatcacac atctccctct tgccccgacc atcacaccag aaggacccac agaggtacat 360
gcacaaaagc cttgcattta cagtgtccga ctcacacagg tccacacatt gagtccacat 420
ctcctacttg tactatttgt gaaaatacaa ctaaatgcaa ctttgccttg agatctcatc 480
tttaaaaatg gaatcaaagg cgtctcctat tctgtctctg cttccaagga tcaggtgcgg 540
tcagagttat acattcagat tcctaattca aggaatgtac ttattatata agctgggcat 600
caatcagcat ccatgtattg agcaccttct aaatgctaaa cagcaaacca gacaagtgaa 660
gggaacatgg gcatacagaa tggcttgcaa tttgtgtaag aattggggaa accaaactgg 720
aggaggccaa tactggaggc tgctagacag gagagcaatg agctgggtct gaaagcactg 780
```

```
gatgctggga tgggtgcaca ggggaaaagt gagcattcca ggcaaaggga acaggcttgg 840
caaaggcaga gaggtcccat ccattgtggt ataaggcaaa ggctgttacc agagagggct 900
aagcacgtga atacccagat ctcaaaacac agaaatggag gcaatggccc tggagatcca 960
taccctaaag aggtatgggc tgtaatgaca gcaagccttg gaaggtctag aagggcacag 1020
acctcttggg ccccacccctt cagccatttt ggatgctctt caattctggg catgaggcct 1080
ggaaaagttg gggagccctg caacatttcc accagatggc agtatctcct aacgtgactg 1140
tcctgggggc catggagggg atttagcttg caaagtgcct gatattaaga tttagagtcc 1200
caggaggcca tccttgtagc cacagttcag gcttctggtt cattccctcc ctccatctcc 1260
catgtgcttc caagatttca tcctgggaat ggaaactgtg aagctgtctg aggaaccctc 1320
ttcaattcat gcggaggatg atcactccct ctcctttctt tcgtggtatc accctctccc 1380
catttgagaa cctgaatgat gctggcaggc tcacgcttcc agtgaaccac aattacttgt 1440
aaagcagagc agctggatcc catgtgtgat ctgcgttcag ttttgcctta acccagtgca 1500
attacccgat gaccgcctct gaaatgtgcc tgcctttcta tccccttcct gtgagcacac 1560
ccacctgtga gcacccccac ctgtgggctc ctgcactgaa cccccttgnnn nnnnnnnnnn 1620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1680
nnnnnnnnnn nnnnnnnnnn nnnnnnnatt tttttatttt ttaaaaatta taaattttgg 1740
tcttgaactc ctgggctcct caaattcctg ggctcaagtg ccttggcctc ccaaagtgct 1800
aggattacag acatgagcca ccatgctggc ccacactctc tttatagcta cctagtccat 1860
tattacatat tctcagcatg gcgttttttca ctgtctgata tttcccct tc tcttcctccc 1920
tccttccctc cttatttctc ttttgacctc ttctcaagta gaatgtcaac tccatgagac 1980
ctatgacaat tttatctgaa aacctagggc agtgctttgt ccatagtttg acactgaata 2040
tatatttgct gaataagtaa atgagaatag agaaaatgtc aagaagttga ggacattctc 2100
gtctgatggt ttgtaattgc tctgtgaagt aggaggccaa gtaggagact aaaagtagaa 2160
atagtggagt gggcaagttg aagagggtgg aatttggggt ggtgagaatg gaagaaagtg 2220
atgacaaaga gaacacagat taattgttgg acagcattta ggccctgcca ctctaaaaat 2280
acaatgattg catgaaagaa tgaatgaata agggcatgtc attctgctgc tactgttctg 2340
aaaagcgctt ctgagaaatt gagctaagct taatcacaca gtatgtgtgg tagacagaaa 2400
aattaccttc aaagatatcc atatcctaac ccctagaatc tgtgaacctg ttgcctcaca 2460
tgacaaaagg gactttttata gaaatgttta aaatttaagg attttgaggt gggaagttta 2520
tcttggatag tccaggtaga ctcgatataa tcagaagggt ctttattaga gaacaatgga 2580
aaggaaactc agagttagag gagatctgaa gatggaagca gtgggcagag tgaaggaaga 2640
aaggtgatac aagcaaggaa tgcaggtggc ctttggaata cacaaacggt aaggaaatca 2700
gttcttccct agagccccaa gaaagaacac agtcttgttg accccttgat tttaggtctt 2760
ctgacctcca gaactgtaag gtaatacagt tgtgtggtga cttacagcag caataagaaa 2820
ttaatatacc ttcagttcta tgcagaacgt gcttctcaaa ccataatctg agaccttctt 2880
aaaatgtagc ctctgattca gtaggtttga tgtggtgaga cctgagattc tgcatatnnn 2940
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3000
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnggc agagaaaaaa atggtgaaca 3060
ggccatgtgc agtggctcat gcctgtaatc ccagcacttt gggaggctga ggtgggcaga 3120
tcacgaggtc aggagatcga gaccatcctg gctaacacag tgaaacaccg tctctactaa 3180
aaacacaaaa aattagccag gtgcggtggc gggcgcctgt agtcccagct acttgggaag 3240
ctgaggcaga agaatggcgt gaacccggga ggcggagctt gcagtgagcc aagatagcac 3300
cattgcactc cggcctgggc aaaagagtgc aactccatct caaaaaagaa aaaaaaatgg 3360
tgaacaccag ctctgttaat catacagctt tggacagtgt gaggagacca atcacttcaa 3420
attgccctca aaaatattgg caggatagag agttagcagc attttggact tgtctgagaa 3480
ttaaaatgtc cttttaattt attttccaat ttaaaaaatt tgtggtaaaa cacacataat 3540
gtaaagttta ccatcttaat cattttcaag tgtacagttc agtggtatta aatacattca 3600
taatgtgtca ctatcgccac catccatctc ctgaaccctt tttatcttgt aaaactgaaa 3660
tcctacactc attaaataat aacttcctat tactccctta accttggcac ttggcaacaa 3720
ccattctact ttctgcctct atgattttga ctatgctgag tacatcatat tagtgcaatc 3780
acatagtatt tgtcttttgt aactggctta tttcatttat aaagtcctca agtttcatcc 3840
atgttgtagc atatatcaga attttcattt taaaggctaa atcatgaagg aatagaaaat 3900
ctgaatatac ctataacttg taagtggaat aaatcaataa tcaaaaattt tccaattaag 3960
aaaagccatg gacctgatag tttcactggt aaattctatc aaatatttaa agaactacca 4020
acaattttta ccaaactttt ctaaaaactt gaagagaagg gaacacctcc taactcatca 4080
gagtcctgat accaaaacca aagacactat gagaaaacaa aactacagac cagtagctct 4140
tatgcacatt gatgcaaaaa tactaaaaaa attactaaca aaccaaattc agcagcatac 4200
taaaaagatt atacactatg gccaagtaga atgaattctt ggaaggcaag gatggttcaa 4260
catatgaata tcaatcaatg taatacatta cattaacaga atgaaggaaa aaacatataa 4320
```

```
tcatctcaat ggatgcagaa aaggcattta acaaaattca aaaccgattc atggtaataa 4380
cacttaacaa actacgaata gaaggaaatt acctcaaaat aacaaaagcc acatatgaaa 4440
aaaaccccag caaacatcat attcaatggt gaaagactaa aagtttttct ctaggattgg 4500
gaacaagaca aggatgtcca cttctcaccaa ttctaatgaa catagtacta gnnnnnnnnn 4560
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 4620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncccaggagc agaggttgca gggagccaat 4680
atcgtgccac tgcactccag cctgggagac agagccagac tccgtctcaa aacaaacaaa 4740
caaacaaaca aacaaaatct gtcaccagag tctaagggaa aggtgattgt attacttgct 4800
tactgggatt aatttatcag tacctatgac aacactttaa atctttcact cagagattag 4860
gaggggagga taagaaaact aatttggaag tctgcctctc cttgctcaga caacacatga 4920
aaggttgctg caactcttta gtgctttagt gctcatctag tctttcaggc acttcctagc 4980
caaggaaaca tcttctagct gtttcttcct ctgctccact aaagctcctg ggacttcatt 5040
tatggcagat aaaaaacaat taaatataag attttttaaat gacaataaaa ataaaaagag 5100
caattgagca attgggttgt ctttttttaca atttaaaatt tcctgtcttt agacatccta 5160
gagttgttga ttccgggatt cctggggaga aaggctcagg gtcggctaac ttgccttcat 5220
cgaggcaata gttttatggg cctcaggcaa caatggctta gagagcgtcc aactaatcaa 5280
tctcagctgt agggatggaa gtgggtgggt gggtacagct caagcccttg gtacaaagca 5340
gcccgctagt ctctaagata tgttatctta actcccacaa agtgccaact cccttcaata 5400
tttaaagaac ctgaggccaa gcacagtggc tcacacctgt aatctcagca ctttgggagg 5460
ccgaggcagg tggatcaccc gaggtcagga gttcgagacc agcctagcca aaatgatgaa 5520
ataccatctc tactaaaaat aaatacaaaa gctagccaag tgtgatggag ggggtgccta 5580
tatcccagct attcaggagg ctgaggcagg agaatcactt gaacccagcg ggcagagctt 5640
gcagtgagcc gagatcatgc cacttcactt cagcctcgtg acagagggaca actccgtctc 5700
caaacaaaac aaaacaaata acttgaaaga gggcttanag gccgggcaca ggggctcacg 5760
cctgggtggg ctctancact ttgggagggc aagtgggggga gatcnnnnnn nnnnnnnnnn 5820
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 5880
nnnnnnnnnn nnnnnnnnnn nnnnttatta ttagcgcatg tcctgattga gtgtctagta 5940
aggcttggtc ctttcctagc ctcccaaaag taagtcaata tcctccttta tgttctaata 6000
gaggaagtac acagtgggga gcatgtacag cagtgggttg atccaagatg accttttctg 6060
cttcttgcag taaatcctag gtggctgcta tcaccatcag gcatatgggt catccctcag 6120
cccttatgtc cagttgcttt gataaacagg cattggatct tctcatatta cctggatttg 6180
gagttaatgt ctcaaaatta atctcttgtc tttaattgac aaacaggtca aaaggcattc 6240
taatgtctga aagacctaga gcacgaacaa tgagtctgtc atttttattc aataacttgg 6300
aagggcttat ggcattcgtg agtcaaactg agaggctcat tgtctcttcc tttaaaaatc 6360
ttcctgaagg ggcttggcta tcagttcaaa attggggata cagatatggc aaaacgctgt 6420
catacctagg aatccatgca attgtttcct ggtaggaggt actgctactc tcaccagtgc 6480
ctcttttgga tcaaggtata aactcctcta cctttgtgac agttcaaatt ttaagtattt 6540
aacagaattc tggggaaatc tgggcctttt tcttgcagac tttagtagcc ctcttcagct 6600
agaaaattta cattccaaat tgtattctgt cctgagtctt ccttaccctt gctggcaact 6660
aggatgtgac ccttctttta attggagatc cttatatctc tgggtaagat ttcatcagaa 6720
gtggtagaag aattcttaaa actttgagag agtacagtcc aaccatgttg tttgaccccta 6780
gtctcaaaat cttcccatgc aaaagcaaaa tgccctgaga gttggagctt aaagatgtgc 6840
aaaaaaaaat gcatccttaa ggtccacaac agtaaaccag ctaaagtctc tagagagaat 6900
agtaagtaaa gcataagtgt taagcatcag caggaggata tcttctacaa tctaattaat 6960
ggctgttaag tcccgtgtaa gtcaatagtc ttgtgtgcct gcctttgtgc taacaannnn 7020
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 7080
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnctta caagaccaac ctttttaaa 7140
aaagaatttt aaaggctggt tcataatatg caaaggaaga ctacacattt gcttgctaca 7200
tttaagttgc acagtataat atatagcttt tctccctcct ctgggttatt ttgaaaatat 7260
taataagttg gatgtctatt ccatattttc aaagtggtta tcaatgactt ttacttaaat 7320
acttgtaaaa cttattaatg ccactttaat ctcagtttac tgcttaaagc tttagatatc 7380
catatttttt taaaaaaact attcttaaaa aataggtaac taaatttaat aaataatgaa 7440
aacaatgaca aaatattcaa tgaggaaaaa tgtttatccc catattgtgg ccagaacgtt 7500
aagaaacttt tacaggacga agtctgcctg aaagggtttg cttgggaaag tggtagttta 7560
tagcataaca tctgattttg tgtgtttgtg ccaagggtgt ttcctttctg tcttttttcct 7620
ttttataggc agccacaata gtgacatgtt taatattgat gagtttgacc tcctgggagt 7680
tatcgtatat gcacccttttt tgaatacaaa tgctgtttaa tttatatggt aaacacatag 7740
aatttggaga ctagcatttt aatcaacact aatctcagta ttttctactt ctcctacctc 7800
tccttctgtc aacaacaaca aaaaaatcac aaaccaattt tataaatgac agctaatgtc 7860
```

-61-

```
ctctcctgga gaagcagggt ctgtgtgtga aacataaaag cagcaccatg tgtagtaacc 7920
tctcctaaac catatgctca agcacattaa cagtgttcaa ttagatgatc aattattcaa 7980
gaaacagaac aatccattca ttcaacaaat atttattgaa cagccatgca gaggcagaca 8040
gggggttgtg tatgtggctg tgacccgatg gcacctctaa actggaattg ggcttcagtt 8100
tttctccgtg taaaaatttc ttctttttta tttaactttt ctcttggcag gtccagcagc 8160
tttgaagatc agagtgcatc ttccagctga cgatctcttc ggtcggggac aatgcattcg 8220
attcgcacgg tggagattaa agtccccgag atagaggaaa cgttttttcgc gcccaggttc 8280
agcgaggagc cgcgcggggg cagagggggc ggcggcggcg ggcnnnnnnn nnnnnnnnnn 8340
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 8400
nnnnnnnnnn nnnnnnnnnn nnnttgtgct ttcaccactt agtgtgcaat ctcatgtatg 8460
ctacacactc tcgtgtctca ggttccatat aacacagaga ctatgatggc tgtgcaagag 8520
caattgccac aggagcaaat attgaagtat ggtatctaat taatctagag agcctgtgca 8580
tagcaaaaga ctctatcaag agagtgcaca taccacctac agaatgggag aaaatttgtg 8640
ctatctaccc atctgacaaa ggtctaatat cgagcatcta taaggatctt acacatattt 8700
ataaggaaat atcacccccc cattaaagag tgggcagagg acatacacag atatttctca 8760
agaagacata catatggccc acagtcatat aaaaaaatct ccacatctat gatcattaga 8820
gagatgcaca tgtgacccac aatgagatac catatcattg tggtcagaat gtctattatt 8880
taaaagccaa aatataagag ttactggcta gcttgtagag aaaatgacat gcttatgcac 8940
tgttggagtg taaatgagtt taaccattgt ggaagacagt gtaacagctc ctcgaagtcc 9000
taaagacaga gataccatta gacccagcaa ttccattcct gggtatatac ccaaagaaat 9060
ataaatcatt atattataaa gacatatgga catgtatgtt tatgatttgc tatttattca 9120
caataagaaa gacatggaat caacctaaat gcctattgat gatagactag acaaagaaaa 9180
tatggtacat atacatggaa tactatgcag ccataaaaaa agaatgagat catgtccttt 9240
gtagggacac aaatggagct ggaggccatt atccttaaca aactaacaca ggaacagaaa 9300
accaaatatg gccagttctt acttgcaagt gggaacgaaa tgatgagaac atatgcacac 9360
attgagggga acaacagaca ctgggaccta tcggagggtg gaggtgggga agagagagag 9420
gatcaggaaa aataactaat ggacattagg cttaatacct gggtgatgaa ataacctggg 9480
taacaaaccc ccatgacaca catttactta tgttacaaag ctgcacatcc tgcacatgta 9540
ccgctgaact taaaagttac aaaaattaaa aaacagataa taatggtttt gaagattaaa 9600
taataatcca tgtaaagcaa taatcatcat gaatatacat agtaaatagt aacttagggt 9660
tctttgaatc cactgattac aagttatagg aagaaggcat ttctcatgat atattcacta 9720
gtgtaggcca ctgtctagca gctatcaggg tgtctggtac atggtagagg ttcaatagcg 9780
gtgctgagtg agtcagtgaa taaatgctta aagtttatc ctaagtcact tggataatat 9840
tatatgtaaa gtaggaacat aaaagatatt ttgtattaaa ttcaggcttc tttctttctt 9900
tctttctatc ttcctatgtc tctaaccaaa gttacttgtg ttgtattcag atgtggaaaa 9960
atatcaaatg aggtgatatt tacttagaaa cttttaagtg actttatcta ccagatgtca 10020
caaaggctta gaagtcaaaa aatatctaga cttatcccta tattaagaaa agtattataa 10080
cattctttat gaaaccagat tttaaaaaat ggttgttccc aacacagaaa cttctataaa 10140
gagagtagaa agattaccac aacctaatat tttaaatgtg attcaagaaa tcatttacac 10200
attgataata acatagcctc catgcttaaa ttagaagtaa aatggaaact catgaagaga 10260
gaaatatatg agaaccactt atatgatgag ttcctcaaaa cctctanaat taaaaatgag 10320
aaggatggct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 10380
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttatatcagg 10440
gggcaaaaaa aaaaagaccc ccatgaacac aaatttccca actgagtccc ccgttatttg 10500
tttgtggttg tttgttggct aaacctacaa gaggctgaga aagtatctga ctagacagga 10560
aagggattgc catgtttatc ttgacaaatc atgattgttg aagatttaaa ccagtatcag 10620
tagagatcaa acaaaccaac tgaccaacca accaaacaaa acagagctga ttttgttaac 10680
ttgcaaagca aagtaatata ttgccagtaa agaaattcac tcattgaaaa aagtcaggac 10740
ttttttaagta aaagaaaagg ggaattggtg cttatgctaa ttaagcattg aaaaccagca 10800
ctctggataa gtggtaatga gtccatgagt aggctcacaa ttggttaaag caagttctat 10860
tgttcactgg tcggaaaaga gtgggtcctt ttttagcttc agctggtctg aatccatcag 10920
gataaagcac cataataagt tttgatacca ccttgctaaa ggctactgaa aatggaaatt 10980
tacttttaaa cataattcat ccctgggtct ggagctatta gttaaaaaga gaaaggaggg 11040
tttcttttaa aaacaaagag aaaggggagg aagccgcagg ttgatactcc agcatgaact 11100
tctcacgctc ctgtacatct tgctgggtat tccaagaacg caagaccctg gccgttttct 11160
acttgggcca ttgctcagat gtatgttggc agtaagcaac atttaggcgt gaggcaatgt 11220
cttttctctg gggcagagag caggcttgct tactggttgg ttttgacttc tgaatgttaa 11280
atcaatcttg cattcctggt aagggaggag accacccttc atattgtctt atgcccaatt 11340
tctgcctcca aagaaagaag aagtaaaaat taaaaggcag aaatggaatc cacaggcaga 11400
```

```
cagcccagca ctatacccctg ggcctggtag ttaaaaaatc aaccccctgac ctaactgctt 11460
gtgttaccta tagatttcag acatcgtatg gaaaagcatc gtgaaaatcc ctgtcctgtt 11520
ctgttccgtt ctgattacca gtgcatgcag cccccagtca catacccctct gcttgctcaa 11580
tcaatcacga ccctctcaca cagacccct tagagttgta agcccttaaa agggacagga 11640
attgctcact cggggagctt ggttttttgga gacatgagtc tgccgatgct cccagctgaa 11700
taaaaccctt tcttctacaa cttggtgtct gagaggttct tgtctatggc tcatcctgct 11760
acactgggat acatctacca ttggtcaaca tgtattatct ttttaatata ttgttgaatt 11820
ttgttagcta ccaaaattatt tagaaatttt gtatctttgc tcgtgagtaa tatcaatgta 11880
atgcttgcct catagaatat gttgggatgg attgcttctt attcaatttt ctggaagatt 11940
tcgtatagaa taggtattat tccttccaaa tatttggtag aattctgcag tgaagctacc 12000
tggatgtgaa gtttcctttg tggaaagact tagaattaca aatccaattt ctttagtata 12060
tttatggcta ttcgtgttat cactttcttc tggatgtgct ttagtagttt gtattgttaa 12120
aaaaattaat taggaggcca ctgggctgag atagctccag cgccttgggt tcttatgcta 12180
gcaaactaat cagaagccac caactcactt ctaactagag actttccact ttaaccatca 12240
aatattttct ttatcttgct tccaaaaaca tcttataaaa gttttcccct tgttccctct 12300
cattagagcc caaagtgatt tggtgctgcc caattcatga atcactatct gctcaaataa 12360
actcttcaaa attttaatgt gcctaagttt ctttgtcaca gtatctttca agaaatttat 12420
ccattttctc taaattgtaa aatttattgg cataaaattg ttagagtatt ccctccatta 12480
tacttttaat atttgcagaa tctgtagtga tgtcaccttt ctcctgcttg atattggaaa 12540
tttgtgactt ctctttcctt tgctcatcat tctggcnnnn nnnnnnnnnn nnnnnnnnnn 12600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 12660
nnnnnnnnnn nnnnnnaaat gtgaattttt atcccttttc tgggtgactt attttttattt 12720
tgctggccag ctctcttctt gtgggttggt gcctttgcct gcctcttcgt ctcttcattc 12780
tctgtccccg ccatgatgga cactgtgaat gtcagtcact gatatttctg agtctaaatg 12840
gcggcatgat gcgttacgaa ctgcttcctt cgagaaccat ctgcaattaa attcaagcgg 12900
tttagccttt tggatccaaa attaattaat taatttattt atttatttat gaattatttt 12960
ttgagacagg caacactctt gttgcccagg ccggagtgca atggcgtgat cgcggctcac 13020
tgcaacctct gcctcctggg ttcaagcgat tctcctgtct cagcctcctg agtagctggg 13080
attataggca cccaccacca cggctggtta tttatttatt tatttatttta tttatttgag 13140
atggagtttc gctcttgtct cccaggctag agtgcagtgg tgcgatctcg gctcactgca 13200
acctccgcca cccagcttca agctccgcca cccaggttca agcaattctc ttgcctcagc 13260
ctcccaagta actgggatta aggagcccgc caccacgcct ggctatttt tgtatttta 13320
atagagacgg ggtttttgcca tgttggccag gctggtcttg aactcctgac ctcaggtgat 13380
ccacctgcct cagcctccca aagtgctggg attacaggtg tgagccacca tgtctggcct 13440
tggatccaaa tttaaatcca aaattggatt taccaattaa atccaaaagg gagctgagtg 13500
aggtggtgtg tgccagtagc tctagctact tgggaggctg aggcaggagg atggcttaag 13560
cccaggagtt tgaggtaagc ttcagcaacg tagtgagacc tcatgtctat taaagaaaaa 13620
aaatctgagc tgggcgtggt ggctcacacc tataaatcta gccactcagg aggcttaggt 13680
gggggattg cttgagccca agagttcaag gccagcctgg gcaacatagc aagaccctat 13740
ctgaattaaa aatcttagat ggaagctgta tagcccataa cttcgcctgt tgtcttttga 13800
ggcaggaggt atttagggggg atgagagagc aaaccagttc tgcagttttt tatgtggtaa 13860
ctctggcctc agactacaga gctttctcct agcttgagag gctcctttct gcgctgtcag 13920
tagccttgga aacggtgttg ttccctggca gtgtttaccc agccgctgtc ccctggcgag 13980
ttcagagcca ggtgatcggc agtgctcgct cttaatgact gtgtttcatc tgcagggcga 14040
acgctgttgg agaagctgtt cagccagcag gagaacgggc ctccagaaga agcagagaag 14100
ttttgctccc ggatcattgc catgggtctt ctccttcctt ttagtgattg cttcagggaa 14160
ccgtgtaatc agaatgccca gacgaatgca gcttcgtttg atgtaagtag gagaattcac 14220
ttctgtccgt gaggcagatt tgctgtggaa atagcagcta cgatgtgtat ctgcccagtc 14280
accctataat ttaaaaacaa catgtgattc aagcatttt tttccttagc tgctcaacag 14340
ctcggtatgt ctgtttgtac acaaaaaaaa aaaaaaaaag aaagaaaaaa aactagcgta 14400
ttaagtacat ttgccaaacc tccttttctt gacagatggt cactcaagag ttctctagcc 14460
tgctttaatc aacgatgatt ttaaaaattg atttctaaat tatttttaat tgtggtaaaa 14520
tacagacaac ataaaattta cctctgtaac cattttttaaa tgtaccgttt agtggcatca 14580
aatacattga cgtggttgtg catccaccac caccatccat ctttagaact cttttttatc 14640
atccaaaata aaccctgtac ccattaaaca ataactcccc atcctcctct ttcccaagc 14700
ccctggcaac aaccattctc tttctgtctc tatgaatctg actatgctag gtagctcata 14760
taagtggaat tatacagtat ttgtcctgtt tgtggctgac ttatttcact tagcatgatg 14820
tccttgagat tcatccatgt tggagcatgt gtcagaatgt ccttcccttt taaggctgaa 14880
tcatattcca ttgtatgtat atgttgcatt ttgtttatac gttcatccat caatggacat 14940
```

-63-

```
gtgggttgtt  tccacctttt  gctgtaatgc  tgctatgaat  atgggttcat  aatgagtgaa  15000
taatgccgct  atgaacatga  ggtacaaata  cctcttcaan  nnnnnnnnnn  nnnnnnnnnn  15060
nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  15120
nnnnnnnnnn  nnnnnnnnnc  aatccccata  aaggaagagt  taggctctga  cactgcctag  15180
agaacacacc  cccagcaggt  gcagcaacac  tgcaagtgga  gaaaattctc  aaaagctgat  15240
aaaatcatct  ctatagcaca  gattgctata  aactttataa  gtatataaat  gctagtttct  15300
gagaaattta  taactctata  aagataaggg  caggagacgg  gcaaagtttc  ttgggctctt  15360
tctgctccct  ttcctccctc  cacccaaata  aaagactcag  tgggaggggc  catcttcctg  15420
tccttcaaac  ccagcctcta  atatcatttt  ctgaactaga  aaatgcaggc  ctgtccagat  15480
gcagtggctc  acgcctgtaa  tcccagcact  ttgggaggcc  gaggcaggca  gatcatgagg  15540
tcaagagatc  gagaccaacc  tggccaacag  ggtgaaaccc  ggtctctact  aaaaatacaa  15600
aaattagctg  ggtgtggtgg  tgcgtgcctg  tagtcccagc  tactcgggag  gctgaggcag  15660
gaggcgcact  tgaacccagg  aggtggaggt  tgcagtgagc  cgagatcaca  ccactgcact  15720
ctagctggtg  acagagtgag  actccgtctc  aaaaaaaaaa  aaaaagaaa  atgcaggcct  15780
aaggatgtta  ggtgtcttgt  caaaggtcac  gttatcttta  tctaggaaag  gcccatgtca  15840
ttgatcacac  atattacata  ttatatacct  aattatgcag  aactgaagaa  atctagaata  15900
gtataaccat  gaagaattct  ctcattcttt  tataggatgg  aaagtgttcc  ttattttctg  15960
cctattcctt  tcccctgaaa  acacgtggac  tctgtacctt  gacttcatga  agtacaccca  16020
tgtggggagg  catgggattg  cagccatagc  ttaagcaaca  gaagctactt  cctggatctc  16080
aatcccgatg  tcagaggcgt  ttgaaccaga  gtgactccat  cttgaataga  ggctgggtaa  16140
aatgagaccg  agacctactg  ggatgcattc  ccaggaggtt  aagaaattct  tagtcacagg  16200
atgagtagga  ggtcagcaca  agatacaggt  cataaagacc  ttgctgataa  ggctgataag  16260
acagattgca  gtaaagaagc  cggctaaaac  ccactaaaac  caagacggtg  accagagtga  16320
cctctggtca  tcctcatgtt  acactcccac  cagtgccatg  acagtttaca  gatgccatgg  16380
caacatcagg  gagttccct  atatggtcaa  agaaggggag  gcatggataa  ttcaccccctt  16440
gtttagcata  tcatcaagaa  ataaccataa  aaatgggcaa  ccagcagccc  tcggggctgc  16500
tctgtctatg  gagtagcctt  tctttattcc  tttactttct  taataaagtt  gctttcactt  16560
tactctaagg  acttgccctg  aattctttct  cgtacaagat  ccaagaaccc  tctcttaggg  16620
tctggattgg  gaccccttttc  cgataacact  gatgcctcca  ttatgctagg  tatggcctta  16680
gacaggttac  ataacccctg  gtaatcctgt  ttcctcatct  agaaattgga  aataatcatc  16740
ctcattacct  ccgaggatta  ctgtgaaaat  taaatgaaac  aattttttgta  acaggcttaa  16800
cagtacccaa  taaatgttac  ctgttattat  tatgatcaag  atatacttca  aatactctct  16860
acttgtaaat  gtgattaaaa  atgttggttc  aacttaaaag  aaggaaatca  taagttggat  16920
ctaaaagcat  ttgaaatagt  acggtaatag  gcaaggtaat  cacagattca  aatatcttca  16980
tccaccaagt  tttgggtttt  tttccttaaa  tttagtagat  tttaacaaca  aggtaatatt  17040
taagacactg  cttgctagaa  ttcctagcct  caattttttt  taaaaaaaag  ggcttgcata  17100
tttgttttac  tatatttatt  aaattcacat  caaaaataat  attcattaaa  tgagagtcgg  17160
ggacttatta  atcattaatg  ttctccaatt  attgctgtac  taatccccctc  acgctcttcc  17220
cacatattct  tccacactgt  agctaatcaa  aagtgaagct  tgtagaatca  gctttgcagt  17280
catacactag  ctataaatac  tcctcttacc  ttgagaagca  aaactcacaa  gcctagataa  17340
acatggacac  cgcagttagg  gggtaagttt  ttattcacca  tcagaacaaa  tgttgcaatc  17400
ctcttgcaca  atgaagaagt  aaaatcaact  ctccttgcac  tagggtttta  ttgggcctgt  17460
gaccattgac  actataaaaa  gtaaaaagta  ttttatttgc  acagggctat  acaatgtaaa  17520
aggcatttct  gcatctactg  tcagctctgt  gaagtagggg  gtctttgggg  agggtgctta  17580
ggtggaactg  acacagctgt  gcggcccctt  tgtccttctt  tcctcctcct  ttccctctga  17640
aaagcagtca  ccgtgggccc  tgagacagcc  ttcaggatgg  aaaccagcta  tgaagannnn  17700
nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  17760
nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnngggt  agattgcaaa  aattttctcc  17820
cattctgtag  gttgtatgtt  cactcttttg  atagtttctt  ttgctatgca  gaggctcttt  17880
agtttaatta  gatcccattc  ttcaattttt  gcttctgttg  caattgcttt  tgcaaagcca  17940
ttattgtctc  tgttttatat  ggaacctgag  acaagagagg  tatgtagcat  acatgaaatt  18000
gcacagtaag  tggtgaaagc  agaatttgta  tctagttgca  gtctaactat  aatgctgttg  18060
agtgaagaaa  atgagatgat  tcctcccttc  tgttttctta  ttagctaaag  aataaacaaa  18120
ataaggtata  tgaaggttgg  tagtggaggt  actccctaag  ttgcccagac  attctcacgg  18180
attagtgagt  aataatcggg  ataatgtggg  caggaggag  ggcagtattt  gaagtggaga  18240
tctatgacga  ctcagtctct  ggggacagtg  ctggatcaac  ttgattcttc  accttaaaga  18300
agaccttgtc  ctccacagca  tgactttcaa  ttaatttctc  ctccccagca  ttttgcattt  18360
cagaactgag  aagtgcttca  gggaacaaaa  tttctatgga  tgcattaaac  ataagaaaat  18420
caggctgtgg  gacacttaga  ctgaccatct  gaagagctgt  ataaaaccct  ggattcaaac  18480
```

-64-

```
agggaagggc cattttcttt ctttctttct ttctttttttt ttttttttttt ttgagactgc 18540
attgttcttg agactgagtc tcactctgtc acccaggttg gagtgtagtg gtcaatcctg 18600
gatcactgca acttctgcct cccaggttca agcaattctc tggcctcagc ctcccgagtg 18660
gctgggatta caagcgtgcg ccaccaggcc tggctaattt ttgtattttt agtagagatg 18720
gggtttcacc atgttggcca ggctggtctc gaactcctgg cttcatgtga tccacccttc 18780
tcgacctcct aaaagtgctg gcattacagg catgagccac cgtgcccagc tgggtcattt 18840
tctttttatg tatttttttt ttttcagttg aaaatctgag attgaaaacc aaattaatga 18900
atggagaaat ctcacatgct tcatgccaag agtcactcat tacagagcag gggaaagcct 18960
tcctttaatt gaaataaact atcacaagtg aaaaagagta ttggaggaga gtttatttat 19020
gtatctcagg tgaaaccatc acccaccctg tgcaccgagg ctgtcaagct tcctcagggg 19080
acagcactcc atctgcctca agtgaagtta atctcctttc tatcttttta aaactaaggt 19140
gagcagatgt ttcttttcaa atcaacatgt ccttagtctt tgacttacat agcgagccac 19200
atactgccga gcataaacca cttaacacca aaaggaaact acatattcta ttagttcaat 19260
gaaacaaagt ggaaaataag ctaaatgcag agctttttat taccattaaa tagttgatca 19320
aaataagcag agttaaataa aagggacaaa cctgagtaaa taaagttttc atttctgccc 19380
aggaatataa atatatatat aaatataaga tagaagtcat gttgattatt ccagcatttc 19440
ccaacagata gttgaggaat ttctttccaa tatttttatt gcaccacctg gtggaatatt 19500
ttccatatga ttgatatttg agaagcaaat aagcgctgat ttctcttcat cttttttgtg 19560
ttttacttag aaggttggtt aaattaggga gaatttcatg ttgctatttc tactctcttt 19620
tatgaataac ttgccttgcc cttcagttaa gtgttcgtag agaagactat ctaaattatt 19680
cactgtggaa gtacacatca tcacatgtga tgggatattg ttaatcgtta aacaagaagg 19740
aggctctggt gcatgctacc acatggataa ccttgaaaac attatgctaa atgaaataag 19800
ccagacacaa aagtgcaaat attgcatgat tccacttata tgaagttcct agaataagaa 19860
aattcataga tagaatgtgg cctggagttt accaagagct ggatatagtg ggggaaaggg 19920
gagttaattg ttagtgggca cagaatttca ctttgggatg ataaaaagtt ctgaaaaaga 19980
ttgtggtgct atttgcataa cagtgtgatt gcactgaatg tcgctgaccc atacacttaa 20040
aaatggttga aatggtaaat tttacattac attcattcta tcataatttt tttccaactt 20100
ttattttact ttcagggtgt gtatgtgcag atttgttatg tgggtaaact gtgtattgtg 20160
ggggtttggt atacagatta ttttgtcacc cagttagtgg gaatagtacc tgacaggtag 20220
tttttcaaac ctcattttcc ctccaccctc aaggtaggcc tgggtctatt gttccctttt 20280
ttgtgtccat gtgtacttaa tatttagctc tcacttataa atgagaacat gcagtatttg 20340
gctttctgtt cctgcattaa ttcacttaga ataaaggcct ctagctccat ctgtgttgct 20400
gcaacagaca taattttnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 20460
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncct 20520
cttgaattgc ttcctgaggg aagccaagaa cccatgtttt ctcccaggca gaaccccagt 20580
tttggggttg gctctgtgac aagactgtat tgtaatagca ggaggactgg ggaaaaagat 20640
gagaattcaa agaaccacca aaccagcagg tttaccagtt ttgttcctcc agtgtccctc 20700
aacctgaact caaggtatcc caaaacccag aagtgggcat cagcaccgac aaggaaagct 20760
ttaaggggca atttggcaat gtgtgtcagt gatctttaaa aattcacccc tttgacccag 20820
aaattcaact ttataaaagc tattctaggt aaatattcag aggtatcctc agagtgatgc 20880
atcatgggag tattatgatg actaaatgag ataatgcatg tcaagtattt atcacagttc 20940
ctggtactat aacaaataga ttattaatag taccaaaatt caaaggaact aaaatgtcca 21000
acaatacaga cataaataaa aaaagatagc tttatacaca tgactgctaa ctatacagcc 21060
attaaaagcc atgctattac agaaagaata atcacttaat tgatttaaac atattaaata 21120
tatttaaaga aaccagaaaa ataaaacatc agctatcact gaagaatgct agggcactga 21180
taacagaata ggaaataatg aggcatttat gctgcctttc tagaaagaac tgtatttcag 21240
ggtaacaacc atacctagtg aataaagtct tcaatacaga aaaattccag ccaaaatgtg 21300
caaaaggaat gatagaattg gccgggcgcg gtggctcacg cctgtaatcc cagcactttg 21360
ggaggccgag gtgggcagat cacaaggtca agagatcgag accatcctgg ccaacatggt 21420
gaaaccccat ctctactaaa aatacaaaaa ttagctgggc atggtggagc atgcctgtag 21480
ttccagctgc tctggaagtt gaggcaggag aatcacctga acttgggaag cggaggttgc 21540
agtgagctga aatctcgcca ttgcactcca gtctggcgac agagtgtgag actctgtctc 21600
aaaaaaaaaa aaaaaaaaga aatgatataa ttagaaaatc accattttgc aatccctaat 21660
gaaataatgg gttcacttaa agaacagcaa gtggatggaa aatccattag agaaaaggtc 21720
aattgaaact cttgcaaaga aaggatcaag ctgtcagccc caaacccagg gatcattcac 21780
agcttcagga caactgagaa agccagacat ggtgggcccc tgctgggggt gatcataaag 21840
tacacagcat cccccatcga gctttcctgc tgtcccccag cctctggaac aaaagaaagg 21900
agaactcagc atgaaccaat tcaactgtca gattgcacct agcatccatt ctagagtatc 21960
agagagttct gaggatggac tagttaccag gtaatattga acaacttact ctatttgctt 22020
```

```
tcaatataaa gaatgacatt gtagcatact ttaaaagtcc atttttgaga tacatatttg 22080
atattaaaat aacatgatgt ctggagcttg ttttaaatta tttcacaaaa aagtaggtgg 22140
catggggtag aagtggaaaa aaagggttga taaaactatt atggcattga aaatattgat 22200
gattactgaa gctgagtaat ggattcatgg gaattcattg taattctctg agtgtgtata 22260
ttccactttc acaataaaat atcttaaatc acactattaa aaacatttac ttacacagaa 22320
atatgtgaca caaaaatcat gtgaaaattc aagatcacaa aactaaacaa agcatgttcc 22380
tgattttgca aaaccaagag atacgaacac agtttattaa agagtcaaaa tcgctgtggt 22440
gggaaggcaa acagtttttg ttatttccag gacacacact ccagctggac tatactgaac 22500
tccttttctg ttcaaggaat gtaatttgac caaccaggtc agggggagtg gacagagaca 22560
tgaacttta tttctcttcc tgcatttgat aattgagaat ttaatcagga gacactcacc 22620
tactaaatag gattaggatg ccttgaatct aaactatgga gaatggactg ccctgaagcc 22680
ttaaacacaa cctcatattt tttttttttt ttttttttgag acagagtctt gctctgtccc 22740
ccacgctgga gtgcagtgtc gtgatctcgg ctcactgtga cctctgcctc cccggttcaa 22800
gcgattctcc tgcctcccga gtagctggga ccataggcgt gtgccactat gcctggccaa 22860
tttttgtatt tttagtagag atggggtttc accatgttag ccagaatggt ctcgatctcc 22920
tgacctcagg caatccgccc acctcggcct cccaaagtgc tgggattaca ggtgcgcacc 22980
accgtgcccg gccacaatct tacttcttaa ctgtgcaaac tnnnnnnnnn nnnnnnnnnn 23040
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 23100
nnnnnnnnnn nnnnnnnnnn ngggggacaat gcaccaaaga aatcagcagt ttacaaatgg 23160
ataactcatt ttaagaagca aggaggcggc cgggcgtggt ggctcacacc tgtaatccca 23220
gcgctttggg aggctgagct gggtggatca cagggtcaaa agatcaagac cagcctggcc 23280
aacatggtga aaccccgtct ctactaaaaa tacaaaaatt aactgtgtgt ggtgacatgc 23340
gcctgtagtc ccagctactt gggaggctga ggcaggagaa tcccttgaac ccgggaggcg 23400
gaggttgcag cgagctgaga tggtgccact gcactccagc ctggtgacag agcgagactc 23460
cgtctcaaaa aaagaaaaaa aaaagaagaa gcgaggagac aacatcggag ctgaaggcca 23520
cagcagcaga ccatccacat cagtttgtga ggaaagaatt tatcttgttc atgccctgat 23580
ggttgacatc agaaaaaaat agccaagacc atggacatct caattggttc agcttcacaa 23640
ttctgacgga aaattaaatt tgagcaaact tttcactcaa cgttgccgaa gcctttgtgc 23700
ccagatcagc tgcagacaag aacagagctt tcaactgaaa cgttaaacaa gtgaaatcaa 23760
gatcctaaag catctcctca aagaattgta acaggagatg aaacacggct ttaccgatat 23820
gatcctgaag acaaggcacc atcaaagcaa tggatatcca gcagtggtag tgacccagtc 23880
aaagcaaaag caggggctgg gagtggtggc tcacgcctat agtcccagct actaggaagg 23940
ccaaggtggg aagattgctt gagcccagga gctaaagacc agcctgggca acgtaatgag 24000
accctgtctc tgttatataa tttcttaaaa aataaaataa ataaaaaagc aaaaccagtc 24060
aagcacaaag gtcatggcaa cagttttttg ggatgctcca ggcattttgc ttattgactt 24120
catggaggtc caaagaatga taacatctgc ttattataag catgttttga gaaagttagc 24180
caaagcttta gcagaaaaat tcccaagaaa gcttcaccag agagtccttc tccaccatga 24240
cgatgccaat gctcacttct tctcatcaaa caagggcaat tttgccacag tttcaatggg 24300
aaatctttag acatccacct tccagtcctg atttggctcc ctctgacttc tttatgtttg 24360
ctaatttaa aaacatattt aaagggcatt cattcttctt cagttaataa tgtaacaaag 24420
attgcattga tacggttaaa cttctaggac ccttagttct ttagggatgg actaaatggt 24480
tggtatcatc acttacaaat gtgtcttaaa cttgatgaaa catacattga gaaatacaat 24540
ttatatattt tttaaatctt ttatttcaat tttccatgaa ctttctgaag tcctcttgtg 24600
tttagctttc tctggttggt cctgagttgg atggggtcaa ggagagaggg aataggggagg 24660
gaagctggca gtcattgacc attcaacagc cctgaatgtt ctgagtcaat gctacagagg 24720
ttgtggtttg gttgacatcc tggactggtt gcttcagagg ttgtgggtca gttgtcatcc 24780
agggtctggc cattgtctgt ttgtttattc tgtctctcat gaaaactttt gtctctaagg 24840
ctctgctcac ctttagacgt tcatttcagc atagcacagt tcctctttcc ccacctccaa 24900
tccacaccgc cattagaaac tccaaatata ctgacggatt tatttactgt ttttttgttt 24960
gtttgtttgt ttttaatgtg ctgtctactt cttctcgtct ctggggttgc cattaaagct 25020
gtctggaaaa cttttctgct cccctccgcc acccttgcat tccgtgctaa gttctaccca 25080
acttcagatt gcaggttaga agtcacttca tccaagagct catccgggac ccttcaaatt 25140
tctcgaatat gctctcagag cccctaacct tggcttcaat gatcacattt atcacatgtt 25200
gtggctcaga aaccaatacc caaccaatac cccaaaatat agcactttga catgttgaac 25260
tgaagaagaa gtctcaaagt ctatctgatc ttccctgttc ccctctggcc ccaggtctgt 25320
ctctcagtcc tctgtctctc ccaaaggatg aggttgttct ccttatccac ctaaagtctg 25380
gacctctcgt cccttccctg agttttcgtc actgaactca ttgctggaag aatgactgaa 25440
gtctgtcaac acatctggac acattttcgt cacgaaccat tgtctgctct gcgggcccca 25500
cagacaatgt tccagaccat tgtatgtgat tcaagcccat taaattctcc gaaaaaatca 25560
```

-66-

```
cttactaccc cattaaaatc atccatactt ccccatctcc ctttcaccta agaagaaggg 25620
taaataagca tctatcgcca ctgcataatg gggatttnnn nnnnnnnnnn nnnnnnnnnn 25680
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 25740
nnnnnnnnnn nnnnnnnatg ggaacccacc tcttgcatca gcatgacccg gatgtgagac 25800
atgcagtcaa aggagataat tttggagctt taagatttga ctgccctgct ggattttgga 25860
cttacctggg gcctgtagcc cctttgtttt ggccaatttc tcccatttgg aatggctgta 25920
tttacccagt gcctgtaccc ccattgtatc tagaaagtaa ctaacttgct cttgatttta 25980
taagctcata ggcagaaggg acttgctttg tctcagatga gactttggac tgtggacttg 26040
tgagttaatg ctgaaatgag ttaagaccct gggggactat tgggaaggca tgattggttt 26100
tgaaatgtga ggatatgaga tttgggaggg gcaaggggca aaattatatg gtttggctgc 26160
gttccccacc caaatctcat cttaaattcc cacatgttgt gagaggaacc cggtgggagg 26220
taattgaatc atggggtcag attttttcccc tgctgttctt gtgacagtga ataagtctca 26280
catgatctgg tggttttaaa aggggagttt ccctgcacaa gttctcttct cttgtctgcc 26340
accatgtgag atgtgacttt caccttccag catgattgtg aggcctcccc agccacatag 26400
aactgtaagt cctttaaact tctttctttt gtaaattgcc cagtcttggg tatgtcttta 26460
tcagcagcat gaaaatggac taatacactg ccattatact tctttcacag atgaggaaat 26520
tgaaccttgc agagattaag tgatttgttc aaaatcactc aggcaataaa tggcaaagtc 26580
aagatttgaa ctcactttct ctgaggccaa ttctccctac actcttccaa gctactttta 26640
aaaagtatca ctaaaaaagg cagatgggag cagtggctca tgctgcactt tgtgaggctg 26700
aggcaagagg attgcttgag gccatgagtt caagaccagc ctggccaaca tattgagata 26760
ctcatctcta caaaaagcaa aaaaattagc caggcgtggt ggcctgcacc tgtactccta 26820
gctactaagt aggctgaggt gagagagtca cttgagccca ggaggtagaa gctgcagtca 26880
gctgtgatca tgccactgca ttccagtctg ggtgacagag tgagaccctg tctcaaaaaa 26940
aaggtaggtg gggggggattt aatttattat ggtagaatga tgagagaaga agtagcaaat 27000
ggtttaaata gacattttta tagtgatttt gggggacaga aaaagaatgg aagctggata 27060
cctatcagaa acatggtggc aggggaagtg tgaagagaac aagagcccca cctgttcagt 27120
gtgaagatgc tcccaaggtg atccattaac ctctgtttcc gcattccaca ccactgcttg 27180
gctcacaccc tagctacata aataattgca agaatcaaat agttcttaaa agatattata 27240
taatgctcca ttctgttata ttgaaaattg gtgataaatg gaagtataaa aatattaaca 27300
gacttcccag gattgtagat ggtgtgaaag taggatgata gattctaatg cataaaacta 27360
tgttaccatt tgcccttatc aataaactac atggcttcct attttttttgt ttgtttggtg 27420
ttttgctttg ttgttgtttt tgagacagga tttcaccctg ttgcctaggc tggagtgcag 27480
tggcttgatc ccagcttact acaaccttga cctcccaggc tcaagtgatc ctcctgcctc 27540
agcctcctga gtagctggga ccacaggctt ttgccaccca ttccccaacc ccctcccacc 27600
cccctcccct cacctccacc ccccagtaga gactcggtct caccatgtta cccaggttgg 27660
tctcaactcc tgggctcaag ccatcctcct gcttacagtt gtgactgtat gttaccatac 27720
cctcaggatc tcttaagtga gttgtgaaaa atattcagga ttacctatag aaggccactg 27780
aaattgactc aacccataat aacctttttcc agtggcaaga agttgcaaga ggagttctaa 27840
agacaaaatc aataagaaat taaggttgag gaaggctatc cttggcctta gagaagtgct 27900
ctgcaacaga aatgctatat aatatgaacc tcatgcataa ttcaagattt tctagtagcc 27960
atatttaaaa agggacaaag aaacgaatat aattaagttt aatactatat ttaacccaaa 28020
atatgcaaag tatttttatt tgaaaaatcg ataaaaatta ttgagataca ttacatgctt 28080
ttgtcctaag tgtttggagat tggtatatat tttacactaa cagcaacatt tccattcaga 28140
ttggcccttt tttttttttt ttttttttt gagagaagtc tcactcttat cccccaggtt 28200
tgagtgcaat tgcttgatat cggctcacta caaccaacct gtgcctcctg ggttcaaatg 28260
attctcctgc ctctgcctcc caagtagcgg ggattaagtc acctgccaac acgcccggct 28320
aatttttgta tattttagta gagacggggt ttcaccgtgt tggccaggct ggtctcgaac 28380
tcctgacctc aggtgatctg cctgcctcgg gctcccaaag tgctgggatt acaggcgtga 28440
gccaccgagc ccggccggat tggccctatt tctttaacgc tttagtgctc atctaaagct 28500
catctattgc ttgatgacca catacggcta acgactactg ctttggaccc tggaacttta 28560
gccttagatt tttcaaagct tcttgagcaa cacttagaac ctgcaatgac tgatcccaac 28620
tatgttattg agttctaaaa cagtattatg tgttttgatg cacttaaaat gaaagttata 28680
tgtaaataca tacaaaagca ccataggttt tcacatgcag gcacaaaatt tcttatttaa 28740
caatacactg tggaaaaaaa tttccaaaac ttttttcagt tattcagttt aatagagatt 28800
tagcagaact aagtctttgc ttttgacaga gcttgccacc actaaaataa agaatttacg 28860
ttccaacagg gcaggcatg gtggctcaca cctgtaatcc cagcactttg ggaggctgag 28920
gtgggcagat cacttgagct caggagtttg aggccagact gggcaacgta ataaaaccct 28980
gtctgtacca aaatataaaa aattagtcag gtgtggtggt gcataactgt ggtcccagct 29040
actcaaaggc agaggttgca gcaagctgag attgcaccac tgcactccag cctgggtaac 29100
```

                                    -67-

```
agagttagac tcccacctca aaaaaataaa ataaataaaa gaaaagaaa aaagaaaaat 29160
ttacacaaca gaaaggacca tgggaaggga aggagaaaag ctgattgttg tattgttacc 29220
agaaaggggt cctgatccag cccccaaaag tgggttctcg ggcaagaaag aatttggtgc 29280
tagtccatgg agtaaagtga aagcaagttt gtaaagaaag taaaggaata aagaaaggct 29340
accccatagg caaagcacta ccgagggctg caggttgcac attttatnn nnnnnnnnnn 29400
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 29460
nnnnnnnnnn nnnnnnnnnn nnnnnnnntt tgagatttga cgaaaatggt aatcttgttt 29520
cagatcttct tgaagatgcc tgtagaggga ggcaatttgc tttgatccag ctaccttaat 29580
agtgagtaag tgtaaatttg aagcattttg tcacactctg ctatctcact tttacctgaa 29640
acttcgtatt gtgtttagtc agaatttatt gagcacctac tttgtgccaa agcaccattc 29700
cagacattac aaaatcaaat atagataagc ggttgtcccc gtactctcgg tttttactgt 29760
atggcaaaaa agaaataaat gtcccccaaa accccaagcc atatattgat gtatacaatt 29820
ctagaagaaa ttggaaagat taaatgtgtg gttgattaac tctagaaaaa gaggacataa 29880
aatataaggg gttttgtttt attttgcctc agaggcaatt ttgtgtatac caaaaagtct 29940
actgagattt tttaaaatta atgttcaatc tactaaagtt acaaattcaa aatcctagtt 30000
cttcccaaag tttttaagtg cgtaatataa tattgtattc ttatcttatt gtcattgttc 30060
aatgtcactt ccacagagct tgttattgtt aagtcttggc ctcatttaca aattttattt 30120
cttttaaacct taagctgcat ttacaaatgt agtatattcc atttccttca aaagtatttt 30180
gacctaataa acaaaacctc tctgagtgct agataattct tataaatgta atacattgaa 30240
cttataatta cagtgaagtt catatccatg ttccaactca ggaagattta acttaaaatc 30300
acaagtctaa atcaattaat ccacctctca ttttagattt atagaagatc tagtgggcca 30360
tcttatgtta cacgttagaa taaataagaa aggaattctt gcaaattcct taacacagat 30420
atattaatag tatggctttg attctcctac acatttagat ttgtcctgaa actgaaaaga 30480
tgcttcaaga cagttcgacg tgtcaaggca ggttcattga ttcaccattg tggtacagga 30540
tgttgacagc aaagaaggtt gggggaccag gggtatatt gggaactctc tgtattttgt 30600
attcagtatt gctgttaacc taaaatggct tcaaaaaatt atctattaaa ttaaaagaaa 30660
gagagtgagt atgagcatga aagagttgca agaacccaaa aaagcaagaa aaaagttact 30720
gtctctgttc atgggagagt tggttgggct gctacattat catccataac tctcaacttc 30780
atttatagtt gcatgtcaat gactccacag cttcaagagg taggccaagt ccctggattt 30840
cagttacact tatcacctaa ctctggagtc tcttagagat ccctatagtc tatcaaattg 30900
gtcctttgat tagattttgc aagactggct cttaagataa attaatgttt acctttaaa 30960
tgtaaacatc tctgaacctt actaaaaccc tttggtattt tacatgtttc ataggcccac 31020
acaaattaga tattgaaagt gtgtttcttt gaatcctgtg tgttggacaa ggttttctct 31080
gattggtaat tatactttac aagataattt tagtaacggt ggcctccaac tctaaaagca 31140
tagagaagag aggtaaacaa ataattatat tatatggtga actattcagt catagaagat 31200
actcacataa gaaatgccaa tagggaatga agtgtccaaa gaatatagaa gagtttggca 31260
cagaatagtg ccctatgtgt tgtagagtac gcagtaatca tttattgagt gaatgaatgg 31320
atacacgaat agtgaataaa gtgctcatag aagaatacta gcttgttagt actagaatgt 31380
aaagttacaa ggtagggtta tagattttga cttatagtaa aataaaacac attccacttc 31440
tcctaaaaat ccccctgcgct ccacctgttt atctgccaca cccccgattc ccagaacccc 31500
tggcaactac tgatcatttt actgtctcta aacttttgca gaattttatg tgaatatctg 31560
ttttcaaatc aattggataa ataagattcc ttggatcata tggtgagact acacttagct 31620
ttgtaagaga ctgccaaact ggcttccaaa acggctgtgc cacatttgaa ttcccgccta 31680
cggtgggtga cagttcctgt tgcttcgcat gcttgtcagt atttggggtt gtcagtgttt 31740
tcgatttttag ccattctaat aggtatgtaa tggtacctcc ttgttatttt aatttgtgat 31800
ttcctgaaaa caaatgataa gcatcttttt cacatgctta tttgccatcc atgtatcttc 31860
tttggtgagg tatccagatt ttttggccca tttttttaact gggctatttt catattgttg 31920
cattttaaga gtcctttgta tttttggata caactccttt atcagatatg agtttggtaa 31980
atattttctt gctgtctgtc acttgtcttt agattttcct aacaatgttt ttacagagaa 32040
gtttttaatt ttaatgaagt ataacatcaa ttttttttctt tcatgaatg taattttgca 32100
gttataccta aaaactcaca gtcataaatt ttttgtgact aaacccaagg tcatataagt 32160
tttctcctat gtcttctatc ttttttttaaa aaaaattatt ttaaaaatag aggtaagggc 32220
ttgtcataac ccttagacag ggtgggtttg aactcctggt ctcaagcagt cctcctgcct 32280
taactgggat gagaagcatg tgccactgcg cctggaatat atatatatat atttctttc 32340
tttttttttt tttttttga cggagttttt gctcttgtcg cccaggctgg agtgcagtgg 32400
tgcaatctcg gctcactgca agctccgcct cccgggttca agcgattctc ctgcctcagc 32460
ctcccgagta gctgggacta caggcgcccg ccaccgtgct cggctaattt tttgtatttt 32520
ttagtagaga cggggtttca ccgtggtagc caggatggtc tccatctcct gacctcgtga 32580
tccgcccgcc tcggcctccc aaagtgctgg aattacaggc ttgagccacc acgcccggcc 32640
```

```
attttatttt taaaaaggtt catgatttta tggtagggaa caagtttgcc ccacagaggc 32700
aagatttgtc cttggttggc ctgtctcctg gaaagagaat tgaggtctgg aactctaggc 32760
ctcttgtcca tttactacac catccagaac atttatgtaa gcatttccag caattgtcct 32820
gtccattctg atttgattag caaaggtcac atgtccattc ttaaaatagt atttctgtgc 32880
taagtcatat attccactcc agcatactgg gcaggggtgg agtcagcttc cccagaagca 32940
cattgatttc cacatggaaa ttgggctgtg ttctaaaatg ctgggaaagc agtcacatat 33000
gtgcaatgcc agcatgaaac caaagggttg ggggttagat cattaagggc tttatgtcta 33060
aacaggtgat ggggtgtttt agttcattct ttcattgcta cgaagaaata cctgagactg 33120
ggtaatttat gaagaaaata tgtttaattg gtgcagggct gaacaggaag gacggtgttg 33180
gcactttctc agcttctggg gaggcctcag gaaatttaca atcatggcgg aagacaaagt 33240
aggagtgggc acttcacgtg gctggagcag gaggaagaga gagggaggcg gaggtgccag 33300
atctggtcat ttaaaatgat ctggtcaaaa caacaaactc actattgtga ggacagtacc 33360
aagggggtgg gaataaacca ttcatgagaa accaccccg tgatccaatc atctcccacc 33420
aggctccacc tccaacactg ggggttacaa ttccacatga gagttggtgg ggacacagat 33480
ccaaaccata tcagaaagta atggagtcat cttacagagg agtagtaagg tgttagatct 33540
gcatgttaga atttatttt ctgtagcctg gaagggattc aagctgtgca tgccttgagg 33600
tagattaatg agggagctct agcagtggtc ctggagagag aagctgaggg ctttgaactc 33660
aactatggct gtgacagtgg caaggagaat gggaaggaga gagcaaattc aagacatgtt 33720
taggaattaa aacaatgaca aaaaaaaaaa aagacaaaaa aagcttttcg agctgggtat 33780
ggtggtgcat gcctgtagtc ccagctacct ggaaggctgc agtgggagga tcacttgagc 33840
ccaggagttt gagtctagcc tgggcaacat aaggagacct tgtctctaaa aaaatttgtt 33900
ttaaaataaa aagcgttttg aatgattttc ttgtttctct aattgataat cccacaaatt 33960
ggggaataaa ggatattaga acaggaggct ggaggtagga tggccacagt tgatagatta 34020
tcttgaacat gttggatttg atatgtcttt aagtcaacct ataggaaatg tcaagtaggc 34080
aagtggattt ggggatgtat tatagttagg ctgagggcag agatagaata tcaccattaa 34140
aaccaaaaac agaatttgag tagactaaac ctcttagtaa aagattgggc actaatggaa 34200
ccaccccannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 34260
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnttt agtataattt 34320
cttacccact gctatattag ctaggaaaaa ccaaaaggtg tgttaaaggt gatgtcttct 34380
attgtatatc taacaagagg tcctgcagaa gaggaacgta atgttaaatg ggacgcggtg 34440
atgtggtctt gggttgggct tcttagaaac aaagattgtg tgattattca gagcgagctc 34500
tcaggtgaaa ggtaagggga tgaggaaagc agaatagggc aaggaaagca ataggtgata 34560
aagtgggttc aggagcttca ggctgatctc catggagagc tctagagtgt ggatggtgtc 34620
atgaaatttt tctctcttgg gcaagaagcc aggctcctgc cttctatcag tcagccattg 34680
gctatgggct gcaaccttcc agccatttct aggtgagccc ataggatttt caggagaagg 34740
atgctgttgt gagctatgag cagctagcac tcacaacagc acagggatgg tgacttggtc 34800
tgataagggg ggcctgtgct ggtaccaaca gtgtctaata ttgttctgtc ctttggacca 34860
gtcccatcta ctcccttctc atattcactt cactccattt caagcataga ttttccagga 34920
ttctggctga tgacaatttc tgggaatctt acaagaggag ggaagagggt cccaatactg 34980
caactgaccc caatcatttt ctctccctac cacctgttct gcattcctct cacccttgtt 35040
tgacactttc actgaaggat ggattcactg gctagataaa tggctgggca tcagcagcgt 35100
ctgctacaga tgtcaggaag gatccaggct ttttctatcc ttctatttcg ccatcattgg 35160
cgttttgaat ttcatcttca tgcttgtttc ttcatgaatc caggatattt gctgcagctc 35220
cagacattaa ttttcctcac aggcaggatt agaagatggg aagaaactag ctttcctttt 35280
actgagaaga aaaacaactt tcagaagcct cctttttcatc cacccttcag acttcctgaa 35340
tttttcgcgt taggattggg tcacatgact gcatctaccc ataggagagg cagagaagga 35400
aagactacat aggtagcaaa agggaatgtg tcctaatagg gagaaatggg cttaagaagg 35460
tgctacttga ttaagcatcc actggtgtct tcctctttca ctatgcatca tttgcataca 35520
cttttttttcc catatatcac attatatggg aatataatgt gatatattat atttatttgg 35580
aggattatat caatcctcca aaataaatat gcatttaccc ctggccctag agaataaacc 35640
cccaaatctc atccagtttc tacattcagc ttgaagccat atatcactgg tgataagcaa 35700
gtctggattt ggcttcttat gtgtggtgac ctgtaactaa aagaccaatt tgtctgacat 35760
ggagagagtt aagcacatgc caccccaaaa tatgcagatt tggcttactg cttatttaga 35820
gctgaaaata ctagagaaaa cacacttgca gaaaaggctg tcagacttgc cctttcttgc 35880
ctgttgtaag ccctaaaaat tcttctgaga aagatgcctt tcctgtacca ggatgagaaa 35940
ataacccttа tcactagaga ctgggaattg atctgcaata gatctgtaca aataaacttc 36000
ctaaaatcac ccttaacttc cgctagcttt acaccctcct ttcccttgac ttccccacaa 36060
tttgctaccc ctagcccaaa cttctttgtc accattcac aaatttatta tttctactaa 36120
aaacaaaagg taaaaaagct ttctactctg gccatttctt aggagcttca ctgttttgtg 36180
```

-69-

```
taaggcgccc tgtacatgta aagattaaca acacttgcgt gcatttctcc tgttaacctg 36240
tcttaaggtt atttaattct tagaccccat tgaagatact aagggagtaa atgagaatgt 36300
atccttcttc ccaacactgc aaacacactt aaaatacagt gagggagaaa attagaaatc 36360
cacagtgaag ttttgggaa aagggaagt agaaaacaac tataggccgg gcgcggtggc 36420
tcacgcctgt aatcccagca ctttgggagg ccgaggcagg tggatcatga ggtcagcaga 36480
tcgagaccat cctggctaac aaggtgaaac cccgtctcta ctaaaaagac aaaaaaatag 36540
ccgggcgcgg tggcgggcgc ctgtagtccc agctactcgg gaggctgagg caggagaatg 36600
gcgtgaaccc gggaatcgga gcttgcagtg agccgagatt gcgccactgc actccagcct 36660
gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaa aaaaaaaag aaaacatcta 36720
tagcagtgcc tgctgagcca tattggaacc taaggccaaa gggggaaata aaaatcagta 36780
atacgggctg ggcgcagtgg ctcacgcctg taatcccagc actttgggag gctgaggtgg 36840
gcagatcact tgaggtcagg agttcaaggc cagcctggcc aacatggtga aaccccgtct 36900
ctactaaaaa tacaaaaatt agccaggcga gttggcgggt gcctgtaatc ccagctactc 36960
gggaggctga ggcaggagaa acgcttgaac ctgggaggtg gaggttgtag tgagctgaga 37020
tcatgccatt gcactccagc ctgggtgaca gagcgagact ccgtctcaat aaaataaaat 37080
aaaataaatc agtaatacga tgcatatata aaatttgat attctgttca tcatagattt 37140
tttgcagtca cttagatttt ctaaatattg cattaaaata ttacttatct taattaccga 37200
gtgttttagc acctgcttga actttgtgcc ccagatgagt gcctcatcca cctcacctta 37260
gctccagtcc tgcctatatt aaataccctt tgcaatgtaa tagcttcccc aatgggccaa 37320
tctcatttgt caatgttggt ttctgctctt taggaaaatt ctttcccatt attttccatg 37380
gcccttcaga gacagacctg tattggtagg aggtaattca cggtggatgc aatgcattta 37440
tgatcccatt ctacttggtg taagttctga gactaaaaag ttgaatagtc ataaactaac 37500
tgcagccagg cctcacgttt ttgtcacaat acagttctct caaaaattta acgttttct 37560
atttgtttct aatcaatttc atgtcctaat tatcataatc aaagattttg tctacacaca 37620
gtttttaagt ccaatgagtt tcctaagcac tagtcttgag gctactcatt cttctagagt 37680
taaatggtct ctgcactgca gcaatttgaa atactatcct ctacttagga gatgctaagc 37740
ttaactgcat ttttctggcg agcgtattcc ttttatcctt ccaagcacgt ttaatgaaga 37800
cattttcaaa aaggggtgag tctcaaactt gtcaataata tttgctatta aacccataac 37860
ttctgtgctg gtgcttgttt agatgttggg tatagaagtt ggctgttcca acccaacaag 37920
attacaatga tgggacaact cagttaaatt catgcaacag attacgatga atatctcttt 37980
tagcaaagct gcagtttctt tcaagccagg cacctccatt tgaactttca acctctcttg 38040
tgggacttca ctgaaagaca caggatcaag gaacatttgc caatattctg agcctggaat 38100
gtttgagttc tcactgtcct gatatacctc cttcactcat tcatttcttt attttaagga 38160
ctgtcactaa taacacctca attccaaggt ccaagttttt attaagctgt tctttagctc 38220
tgcctctggc taactggnaa tttgaaaatg actcaaagag cagttgtctc tgtgcttcac 38280
ctctctctgc ttggtnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 38340
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnataat 38400
tgaagcatga gctcagctca gagagctaag agatttgtcc aagatcacat agcagcagaa 38460
agaatactgg aacctgcaaa tttagaccac aattttttta taacataaaa cactgcatag 38520
tttactcttg ggggaccggt aaggatatca taaaggcaaa ctacaaagct ttgccaaagg 38580
gttcttgtta tttaatagct atttagtatt cctaaggatg cctgaaacat ggcctaacct 38640
taattccatt tgatcaggta agaatatcat atctgtggtt gcaaaactag atttaacaga 38700
taattagaga tattacctca cgcctggcca catcctggta gcaagacaca gacgagaaac 38760
agcaaaagtg accagcctct atattgatgt atctagagta attctagtgt aattatcaat 38820
aaaagtcttc agtgttagca ttccaaaatg gtcacaaaaa ctatttttat aaaataaagt 38880
accacccatt ttcccacaaa ggaaattgga tatgggcttt aaaaattcaa ttagtaaaag 38940
taggttagaa aactctaaac aaatattgaa ctctagctga gaatatgtat gctgatgtag 39000
ttggcttaag tgtactgatt ttggcaactt attctaaact gcatcaaaaa ataagatact 39060
ttaacagatg catggacaga tatgtgataa aacaaatata ataaaatgtt aattatataa 39120
tttacatggt agatatatgg gtgttcactg ggagctgcct tcaactttac tgtatgtttg 39180
aaactttctc ttttttttga gacggtctca ttctgtcaca gactgctgta atatgatcac 39240
agctcatgca gcctagagct cctgggctca agtgatcctc ccacctcagc ctcctgaata 39300
gccaggacta caggcattta ccaccatacc cagccaattt ttcaatttgt tttgtggaga 39360
tgaggtttcc ctttgttgcc caggctgggc ttaaactcct gggctcggga gatcctcctg 39420
cctttgcctc ccaaattgct aggattatag gcataagcta ctacacctgg actgtttgaa 39480
actttcatg ctcaaatgtt gaagaagaaa gtgggttaca agaatagatg cgtggctggg 39540
cacggtggct cacgcctgta atcccagcac tttgggaggc cgaggcgggc ggatcacaag 39600
gtcaggagat cgagaccatc ctggctaaca cggtgaaacc ccgtctctac taaaaataca 39660
aaaaaaaac tagccgggcg tggtggcggg cgcctgtagt cccagcttct ccggaggctg 39720
```

```
cggcaggaga atggcatgaa ccatggaggc agagctttcc agtgagccaa gatcatgcca 39780
ctgcactcca gcctgggcga cagagcaaga ctccatctca aaaaaaaaaa aaagaataca 39840
tgcatttccc agattttttg aaattaaatt atgtaatggt tgatagcaat taataaatac 39900
taaatggcca ggcgtggtgg ctcacacctg taatcccagc actttgggag gccgaagcgg 39960
gcagatcaca aggtcaggag atcgagacca tcctggctaa cacggtgaaa ccccgtctct 40020
actaaaagta caaaaaatta gcctcgcgtg tggcgggca cctgtagtcc cagctactag 40080
ggaggctgag gcaggagaat cgcttgaacc tgggaagcag agcttgcagt gagcggagat 40140
cgcaccactg tactccaacc tgggtgacag agtgagattc tgtctcaaag aaataaaaat 40200
aaaaaagata ctaaatgaat cttcctctcc ttcacgatta cctgtctgtc agaattccat 40260
ttcatttcct tttctctctt cttccagctc tcttcctcct catttaccct cttaattgac 40320
tataagatac actgaaatgt ttctgatact tggtgttttg ctctgttttg ttagtttta 40380
tttctgctta accttggtgg aatgctttag aatctctaat agaacaatta gtttgcatct 40440
taattatcca actcatccat ttctctagca ggtgaatgac actttttgc cctagtgtca 40500
attactaatc ttttgccctc caaaatccac ctctcagtcc tgacttcact ccaacacact 40560
cgactcctga acctacttcc tagagaacac catgcctcca gtcaaatcca atgtctctgc 40620
aactgaactc atatttttct tcatatctgt tcttctttg ttttttcttt gagtaagagc 40680
gctacaatcc ctccagtttc ccaaaccagt gttgttgctt actccttcct cttccccagt 40740
ccctataatt taccagtcac gaagacttct ctattctttt ttcgtaatgt ctcttaaatg 40800
cattcatgtg tcccacccca agtgccactt ctcttgcctc cttcccaccc ccacctccaa 40860
ctctcatctg ctccttccca ttatcaccaa tgcttctgga ctggggtgat gatttgctc 40920
cccagggaac atatgacact gtctggagac attttttggtt gtcacagtgg ggtaggggga 40980
taatgttact ggcatcaagg atgctgctca acagcctccc ccgaccaccg cgccccataa 41040
gcaagaatga ttcagcccat aatatcagta atcccgtggt gcagcacact tgctttagca 41100
tgaagactct cacagctgac agtcaataaa tgtttactga aggagtgaaa taaataagaa 41160
attaaaatta catttctcag ttaactgaat taaatcagga acttaaaggg agaaccagtt 41220
aactgaatta aatcaggaac ttaaagggag aaccagttaa ctgaattaaa tcaggaactt 41280
aaagggagaa cctaatggaa caaatcagat tttaaatagt ctatctacag taccaaatat 41340
cttaaataga gaattaactc ttctctaacg cactctaagt tctaaaaact acacaatcta 41400
tataaatatt tcaattccca acatacttgg taacattata aaaagtcctt gctcatacca 41460
gagatttcct ggtcactaga atggaattcc cagagctcat tttgcagtga tgattatgtg 41520
tatgacaaac aattagttat atagctttcc atttgtacca ccattattca ttttatcacc 41580
aatgcagaac ttaaagtgtt tatacaacag agaaaaagtg aaatattcct ctccccaagc 41640
aatacagaat gcactacaag tttgtttcta cactggaaaa aatttaaagg taaaaaattc 41700
taggtcactt aagttcctcc ctgctacaaa tgaaacataa aagccattgt ctcctaacct 41760
ctggaaaact cactagcttc ctctgaaaaa ttccctcttc attatatagg catactttcg 41820
cattcaacgc gtattagcca aaacgtttat ggataattgg caaccgagaa acaaaagaag 41880
acataaaaat atttattttg ttcttatgtc acagagaaat tcctatgaag ctaaagaatt 41940
ctggtattga atttctagac atatataccc tttctaagtg aagacatacc atttctgcca 42000
ctgtgcccgg ctttgattct cacttttttc tgtgcccaaa tattttttctt atctatttttg 42060
cttgccttaa tccttctcac ctccttttca tttattttta tttttatttt ttgagatgga 42120
gtctcaccct gtcgcccagg ctggagtgca gtggcgtgat cttggctcac tgcaacctct 42180
gcctcccaga ttcaagcgat tctcctgccc cagcctcccg agtagctggg attacaggca 42240
cccgccacca cgcccggcta attttgtat ttttagtaga gatgggtttt taccacgttg 42300
gtcagcctgg tctcaaactc ctgacctcct cctgacctcg tgagccgcct acctcggcct 42360
cccaaagtgc tgggattaca ggcgtgagcc accgcgccct gcctttcacc tccattttta 42420
tcatgaattt cagcttctcc aagaggcctc ctttaaagta ggttatttcc ctgtcttaga 42480
gcatctgtct taaccttcaa attcttgatc acaattgtaa ttatatgttt gattattgac 42540
ttgttcattg tctgtcttgg ctcttaccca ttacaatgca agttccctga gggcgggaag 42600
caagtgtgct ttatcaccac catcacctgc tggcaaagcg cttagaactc aaatattctc 42660
aatgaatcac gaacaaaatc aggagtaaaa caaataggtc aggcttcaag caatgctttt 42720
gaagccctct ttctattttt tttttttga dacggagtct cgttctgtca cccagactgg 42780
agtgcagtgg cgccatcttg gctcactgca acctctgcct cccgggttca tgcaattctc 42840
ctgcctcagc ctcccgtgta gctgggatta caggcacaca ccaccacgcn nnnnnnnnnn 42900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 42960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnna caatttctcc tccttctaat tagcagattc 43020
tttcttcaaa tttagatcaa ctgttatcca gaaaagtctt cagtaatccc cttccatgct 43080
cttttggaac ccttcatagt ttctttgtgt aattaattat tttatctaat tagttatgca 43140
atcatttgtt taaagttgac cttcctcact gacatataaa cttgctgatg gccagcatct 43200
accttgcaaa cttggtcact tgcacataaa aagcatcaat aaatattttc aggatttctg 43260
```

-71-

```
aataaataca atgctatgat tctgtgatag attcattcat atcatagtca gaactggaaa 43320
tgatttatca gtctatacca tcaaactttt tatgtaaagg gccaaatagt aagtatctta 43380
ggctttatga gccacacgta aggtctctgt cgcatatttt tcactggttt aattttgttt 43440
tgagcaactt tgaacatgta aaaaccattc ttagctccag gctttgcaaa accaggccaa 43500
gtctatactt cagttacaat aactacattt caaatgtcta aatgttccat tctaccagga 43560
tactagtcat gcagttgtta tgcctctttg tatttctgtc tataaaacaa aactaatctc 43620
aaaagctgcc tttgatattt cgagtgacaa agcaggacac aagagatctc tctattttct 43680
ccatttcttc tggtcattag agaacattct ttggtctccc aggatttttt ggaggggaaa 43740
taacaaattt ttcccctaca gaacttcagt ttgcctgcat ctaactggaa ctaaatatct 43800
aggaaatggc atccctcaat tctcaagtga ttaattatca taacagtaga ttgttgtatt 43860
catgttaccg aattactgaa aatagcccta agactaattc tttcctaccg ctcagataat 43920
gtatatgaca aaaaataagg tcagcaggat cttgcatgtg tgtgactgaa ggtaaatgtg 43980
tacgtgcaca tccagccaaa aattatcaaa ggagttccag aacagtgtgg aggagagaaa 44040
atgatgacct gctggaactc tacttccatg aaagcatatg ccccgaaatc cttaatcaag 44100
ggtctctgta ccacaaccct atcatcaccc tgggcctggt atttccgtgt ttagcggtag 44160
tgggggaaat tatcctgtgc ttttagcagc atccttggcc attactactg gatggcggtg 44220
gcacagccac ctcgccccca gctgtaacag cccaaaatgt ctccagacat tgccaagtgt 44280
ctcctggggc agggggcaaa aataacccca ggctgagaac cccaggccta acctctctct 44340
aaagaaactt cacctccttc tttagtgata actaggcttt cccttgagga tatcctcgcc 44400
ctgcaatcgt ctcaggtgga ggcacttttt ttttttttt tgagatggag tctcgccctg 44460
tcgcctaggc tggagtgcaa tggcatgatc ttggctcact gcaacctccg cctcccaggt 44520
tcaagcaatt ctcctgcctc agcctcctga gtagccggga ttacaggcat gcgccaccac 44580
acccggctaa ttttttgtat ctttagtaga gaggagattt caccatgttg gccaggctgg 44640
tctcgaactc ctgacctcgt gatccgccca cctcagcctc ccaaagtgct gggactccag 44700
gtgtgagcca ccacgcccgg ccaggtggag gcattttaag tcaaatcctt cacatctgag 44760
gcaaaaaacg tgggtaacat ccttgttccc catgaacact tccagatgat ttattctcct 44820
tcaaaaccat gagcttttct gaaaattcct gccactggct agaccctact atccctcctc 44880
ctttctgcca tccactaacc tctagttatt ccctcccttc gtcattcact aaataactca 44940
cctcctgcct cactgcccca cgttccacct ctgctcctat cattcttagt gatttggaca 45000
tccacatgga gagcaaacca ttgctcagga ggatacctcg cccgagacct tgatcccctt 45060
gcctccagct aacattttct ccaccacaaa acagccaccc attcccatct cacagcctca 45120
tattggtcac tatcaggaac cgtacaacct ccagaagatc aattccaaag tttactccaa 45180
actctccagt gggttcccat caccctcaga gtaaaatcaa atccctcact gtgcagtcct 45240
gataggtaag ttagcaacaa cgaggaaggg gggtcccagg tgggggagaa caattgttct 45300
gagtgactgc taaccacaaa caacctgctt gcacactatc ctgttcccag acacctcact 45360
ctgcatgcag ccccagcagc gtcattttat ttgcacagtg gccccacaag caggaccocta 45420
tcaaactttc ccccagcccc tgtctcttgg cagacagccc cttctctgct gtgctacccg 45480
ttgccctttg caacgtactt actctctaat aaacttgcat tcttcacctc actactgttt 45540
cagtaaatta ttttataacc caaggcaaca gccccaatca gtcacaaccc ccgcaacact 45600
caccagatgc aagagccacc tccctacctc ccacctctca ccactcttgc ctactggcct 45660
tctcctcctc aaacacactg agctcactct caccatgaag acttttgcac tagaacactc 45720
ttcttctgca tacatcaatg actccctcac tccttcatct cattcaggtc tctggtcagt 45780
ggtcactttc actgagagaa cttcctaata ccctttctga aggagcacac cccattactc 45840
ttgttcccat tatccacttt attcttcaga gagcttagcc cttgaattta tgtaagtctg 45900
tgatctgtct cctactcctg gagcgtaaac tccatttcag cagtccctgc tgtgtgtttta 45960
ccaccttcta ctcaggacct caaggagtgg ctggcaaaga cgggataatc aattaatttt 46020
tcgatcatca atgaatctat gtacaaatgc ctgaatgcag catctaactc ctgagaacta 46080
ccttctactt ttaggctctt actctagaac cccttctact gctccatcca gcatgctgac 46140
cttgaatcag ttgtccctac tactgttgca caatccatca ctcgtgctgt gtcacttcct 46200
tccgcagcgg cttaaattcc atgttctatc actataatta catacttcaa acacttcagc 46260
tttcttatcc ctctctccct ccaccacgct tgtcaggtga aaccacgacc tgtttcggcg 46320
cagccatcca ctttctcttt gcctgcacct gaacaactga acattgtaaa agaaagccac 46380
acaggtgttg tctgtcttga ctttcagtgc acagctatat acctcaagga ggccaacact 46440
gctgtgggtt ctcatgtaag cttccactcc aatacaatgt ttaaacaatc ttctccccac 46500
ctgacccgtt cttcccaatg atgagatgat attgtcaaat gatttactga gacaatggaa 46560
gaatctgaga caaattccaa atatgcaaaa atgctcacac ttgtcttcct cacaatggaa 46620
agaggccctg tgacaaacaa gagcaagttc tttcccttgt gttctgagct gaattcctta 46680
ttgcgtgcca agatctcact tctttggcta tcccttctct cctgaaacac aaacacctcc 46740
ctctttgctg gacattccca gtatcacaca aacatgcttt aaaaaaaaaa ccgaaagaac 46800
```

```
aaatcctccc ttgagccaca tcactctccg ctcccagcta cgattccatt tcttggcttc 46860
ccttcacatc aaaactacta accggaatta actacgtttg ctacctctcc ctccttgctc 46920
agtctgctct aatttgattt ccatgcccat gatgtgccag aagctgctgg gcagcatggt 46980
atcaataact tttttgtttcc attttttttt tttaaagata aggtctccct ctgtcaccca 47040
ggccggaatg cagtggccct atcataactc actgcagcct cagacttctg gacaaaagca 47100
atcctcctgc ttcaacctcc caaagtgctg ggactacatg ggtgagccac cacacccagc 47160
caacatttct gtcttcatcc tacttagttt atctttcaga aaaatttcac tgttgattta 47220
ctcctactcc ttaaagcatt ttactctcag ctcatgatat tcccttcccc tattttctct 47280
aactcgctag ccattttctc ccaagtccct tttaatggct tctctaccca acacggcaat 47340
gtcggagtgc ttcctggctc accccacagc ttattctctc aactctttct atattctctc 47400
ccataatctc gcccagtctc taaatacccc attctttgaa accgggcaga cctttgtgaa 47460
cgcactaaca gagtatggaa gaaggggccc catacctgga cggaatgcat ggggcagttg 47520
gggcagctac gtgaagcctc tgaagacaga gcggagctcc acaagactgc tttcctgaga 47580
tacaggtcac aaagacccac tgataacaca gaatgtgaaa aagaagctag ccaaaaccca 47640
ccaaaaccaa gatggtgatg aaagcgacct ctggttgtcc tcactgctca ttatatgcca 47700
aagataatca ttagcatact aaaggaatcg ttagcatgga cccgccagcg ccaggacagt 47760
ttacaaatac aatggcaacc tcaggaagtt gccctgtatg ttctttaagg gggaggggcc 47820
ctcaattctg ggaatctcct gtcattttcc aaaaaaactc acgagtaatc caccccttgt 47880
ttagcatatg atcaannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 47940
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnaagat 48000
agaggaattg caatagagaa agagtcttac acatgagatg gctcaagaga gactggaatt 48060
ttattattat gcaaatcagc ttccctcaaa attcagaggc tagggctttt caaggatagt 48120
tcaacaggca agggaatgtg tgctactcat tggttgggga tacaatcaca gaggtgcaaa 48180
aatggtcctc aggcctgctg aatctgcttc taggtaggga cacaggactg gttggtggta 48240
tgggtggagt cattggtcat cagaaatgca aaaacctgaa gacatctcaa aaggccaacc 48300
ttaggttctg caatagtaga ataattgggg aatctacaag tcttgtgacc tccaggataa 48360
tggcaagaat catttctgtc tacactttag cagaattcag gctcctctca tcctcctaac 48420
ctggtggtct ttcattagtt ctacaaaggt agtttagttt tggagaaggg ctattatcat 48480
ttaaactgta aactaaattt cccgaaagtt agcatggacc aagcctggga ctaattaaag 48540
acagtttgga gattaaacac aagatgggga ttggtcagat ctctttcatt gccataattt 48600
tctcactgtt gtatttttttg caaaggtgat ttcactttaa cgaagcctac ctattatcta 48660
ttctctagaa gttcattgtt aagtaagtag ttgaggttct gattccttag agtgactcag 48720
tttcaattca atccttgtcg tcatttgaat atctcaaatt gacaaaccac tttgtgtatg 48780
attttatata gatgtctgat tagctgttct gcaaattcac aattgcagtc aagattctct 48840
tgtccagcac aggaaaacaa gacaagcagc accttttcca gtagtctctc aataagactt 48900
tttcctgtgt ttatagatgt aaaatttgct aatgagcaag gcctgagagc taacattgaa 48960
gttgttctga agataaccta ttcagtggat tagaaatata tattcatggc cgggtgctcc 49020
tgtaatccca gcactttggg aggccaaggc aggcggatca cctgaggtca ggactgcgag 49080
accagcctgg gcaacatggt gaaacgccgt ctctactaaa cacagaaaaa ttagccagat 49140
gtgttggcac aggcctgtaa tcccagctac tcggggggct gagacaggac aatggcttga 49200
acccaggagg cagaggttgc cgtgagccaa gatcaagaga ctgcactcca gcctgggcaa 49260
cagagtgaga ctctgtctca aaaaaaaaaa aagaaagaaa gaaagaataa agaaatatat 49320
actcatttta gaatagaata ttcatttttt aaaacactgc gttcatgttc taatgatgct 49380
gtaacaaatt accacatact tagtggtttc aaataacaca actgcattat cacacagatc 49440
tggaggtcag aagtcttaaa atccaaatgt cagcagggct gtgctccttc tagaggctct 49500
tagggaaaat ctgcttccct gccttttcca gcctccaggg gctttatgca ttccttggct 49560
cacagctctt tcctcatatc actctgacct cggcttttgc ctccccgttt ttcttactcc 49620
aactctcctt cctccctctt tcacatttaa aagacctttg tgattccact gggcctacct 49680
ggataatcca ggacactctc cccatctcaa gatcagctaa ttagcaacct taatttcatc 49740
tgcaaccttc attccccact gccatgtaac atgtttattt acaggttcta gggattctga 49800
catagacatc tttaggggcc atcattccgc ctacaattgt gggccgatgt cttccttctc 49860
tcccgacctc agcaggttgg gtctgggtgg acacttgaaa ttggtagaac agtccacagt 49920
tgggatgagt caaacatgac tgagtacttg actgtgaagt taggtagaac tcagccttgc 49980
tcagctatcg caggccacgt acatgctggt tagtgaacag aaggaaacag gaggttgcag 50040
atacagggag acaagtagca gcaagagaca gaccagagat agagaaagta gttctgatga 50100
ttttcttttt ttgagacaga gtctctgtcg cgcaggctag agtgcagtgg cacgatctca 50160
tctcactgca gcctccagct ccctggttca aggaattctt gtggctcagc ctcccaagta 50220
attgggatta caggtgcaca ttatcacacc tggctaattt ttgtattttt agtagagatg 50280
agatttcacc atgttggcca ggctggtctc agactcctga cctcaagtga tctacctgcc 50340
```

```
tcggcctccc aaaatgctgg gattataggc gttaatccca gcactttgaa ttggaaaatg 50400
gattttctaa actgaattag aaaatagtaa aaactgggtt cggatttagt ttcccactcc 50460
gctattttct ttccagtata tatttcagac cagtaaagaa gagaggtaaa taaccaatta 50520
agaaaagttt ccttgctgga tactgagatg tttgatggtt cctgccactc ctactggcac 50580
ttagtacatt tgtggtctat tatgcagctt agcaattttg aaaaacattt ttattctctt 50640
tagctcatcc cttcttaaaa ataaatatta aggttttggg gagctgagga tacgaaattc 50700
gtaatgtata caacagctga ccagttcctg tcaataaaat atgacaatta aattcagaag 50760
cgaggccctt tccttgctta tcttgtttag tgagacaagc tcattcctaa gcagtcccgg 50820
ccaatatgac tttgaaatag tcatccctgg aatccatttc gggtttcttt ttggacccaa 50880
gagctgagct gaatttggac atcaggccaa ggctgaacag caacagggtt caggccattt 50940
ctcattagga aattactgcc tctaaaccag gcccaaagtg agcactattg attttttaaa 51000
tacttttttt attaacaatt ttggggaggt ataatttaca tatcataact tcacctgttc 51060
taattcagtt gttactggaa atggggtctt ggaactcatg caagaaataa tttgggggtga 51120
gtccacagag taaaccgaaa gcagatttat tgagaaagta aaggaataaa agaatggcta 51180
ctccataggc agagcagcct caagggctgc tggttatcca ttttttgtgat tatttctcaa 51240
tcatatgcta aacaagtggc agatattcat gagttttctg agaaagggga tttcccagaa 51300
ctgagggttc ctcttccttt tagaccacat agggtagctt ccagacattg ccgtggcatt 51360
tgtaaattgt catggtgctg gcaggaatgt ctcttagcat gctaatgcat tataattagt 51420
gtaaaacgag cagtgaggat gaccagagac cactgttttt tggcatcttg gttttggtag 51480
gtttgggctg gcttctttac tgcatcctgt tttattagtg ggcttcgtga cctgtgtctt 51540
atgctacatt tctatctaat cctgtgacca agaatgcctt ccctcctgtg aatgcagccc 51600
ggcaggtctc agcctcactt tacccagccc ctgttaaaga tggagtcact ctggttctaa 51660
cacctctgac ataaccatca ccacaatctc attttagaat atttccattc ccgccacatg 51720
aaagtcatgc cccattcctg cgcccagccc taggcaacgt gagtttactt tctgtctcta 51780
cagatttgcc tttcctggtc atttaatata aatgaaatca tgtaagatat ggtatttttt 51840
tcctacttct taacttacca taatgtcttt gaggtttatt tatgtggcag catgtatcag 51900
tactttttttt taaatcaata aagagtattc tgttgcatgg ctagtccaca tttttgcttat 51960
ccattcacta aaactattga ttttttacca ctagatcatg gtcagaaaat gtagtctgag 52020
gaacctgcca gatgtagtct ggtcagggggt atcaggtgtc ttaatctgtt ttgtgttgct 52080
ataaaggaat acctgaggct cagtaatta tttattttta ttttatttat ttatttattt 52140
tgagacggac tttcgctctt gttgcccagg ctggagtgca atggcccaat ctcggctcac 52200
cgcaacctcc acctcccagg tacaagtgat tttcccgtct cagcctccca tgtagctcag 52260
attataggca tgtgccatca cacctggcta attttttttg tatttagtac agacggggtt 52320
tcaccatatt agtcaggctg gtcgagaatt cctgacctca agtgatccac tggccttggc 52380
ctcccaaagt gctgggatta caggcgtgca ccactgcacc cagccaaggc ttggtaattt 52440
ataaagagaa ggggtttatt tggctcactg ttctgtaggc tatacaaaaa gcatgctgct 52500
ggcatctgct tctggtgagg tctataggcc tcttccattc atggttagaa gtcctaggca 52560
cactggcttg ggctcaatgt ttcctagccc acatcttgaa ggctgtggtg gatgaaatca 52620
gcatgtagag gcaggaaaac cccggatcaa tcagaaaaac acttactcct tggcactcat 52680
atgaggatgg cataagtaga gggtcttggt agaaaagatg acagttcagt acacttagca 52740
acaaagcttg agaatgtcta gcttctcaca cctggcaagc ttcctcagtc ttgatgaatt 52800
aacgattctg cctttctgtc tttcaggtg cttttggctat agaggccttg agatatttcg 52860
gttacataac tggctcttat ttccgttgtt taacatttat tgagcattta atatgtgtga 52920
ggtcatttgc atacattgtc taattaaatc cttgcaatga tcttataaag tagctgcctg 52980
atatggtttg gctgtgttgc cactcaaata tcatcttaaa ttcccacatg ttgttggggg 53040
gatccagtgg gaggtaattt aatcatggag gcaggttttt cccatactgt tcttgtgtga 53100
tagtgaataa gtctcacaag atctgagggt ttcagagggg agtttcccgc acaaattctc 53160
ttctcttgtc tgatgccatg tgagatgtgc ctttcacctt ccaccatgat tgtgaggcct 53220
ccccagccat gtggaatgta agtccattaa acttctttct tttgtaaatt gcccagtctc 53280
aggtatatct ttatcagcag catgaaaaca gattaataca gtaaattggt accagtagag 53340
tggggcactg ccgaaaagat acctgaaaat gtggaagtga ctttggaact gggtgacagg 53400
cagagtttaa aacagtttgg aggccaggca tggtggctca tgcctgtaat cccagcactt 53460
tgggaggctg aggcaggcag atcacctgag atcaggagtt cgagaccagc cggaccaaca 53520
tggagaaacc ctgtctctac taaaaataca aaaattagct gggtgtggtg gtgcatacct 53580
gtaatcccag atactcagga ggctgtggca gaagaattgc ttgaacccgg aaagcagaga 53640
ttgcggtgag ctgagatcgc accattgcac tccagcctgg gcaataagag tgaaactgta 53700
tctcaaaaag aaaagaaaaa aaaacagtt tggagggctc agaagaagac agaaaatgt 53760
gggaaagttt ggaactccct agaaacttgt tgaatggctt tgcttaaaat gctgataatg 53820
atatggacaa tgaaatcaag gctgaggtgg tctcaggtgg agatgaggaa cttgttagca 53880
```

                    -74-

```
accgcagcaa aggtgacttt tactctgttt tagcaaagag actggtggca ttttgccttg 53940
ctctagagat ttgtggaact ttgaacttga gagagatggt ttagggtatc tggcagaaga 54000
aatttctaag cagcaaagca ttcaagaggc gacttgggtg ctgttaaagg cattcagttt 54060
taaaaggaaa gcagagcata aaagtttgga aaatttacag cctgacaatg aggtagaaaa 54120
gaaaatccca tttttctgggg agaattcaag caggctgcag aaatttgcat aagtaacaag 54180
aagtcaaatg ttatccccaa gacaatggtg aaaatgtttc cagggtgttt cagaggtctt 54240
catagcagcc cctcccatca caggcctgga ggccttggaa aggaaaaatg gtttcatggg 54300
tcaggcccca ggtccccgtg ctgtgtgcag cctagggact tggtgccctg ctccagccac 54360
ggctgaaagg ggccaatgca gaggtcgagc catggtttca gagggtgcaa gccccaagcc 54420
ttggcagctt ccacgtggtg ttgagcctgc gagtgcaccg aagtcaagaa ttggggtttg 54480
agaacgtctg cctagatttc agaggatgta tggaaatgcc tggatgacca ggcagaagtt 54540
tgctgcaggg gcgaggccct catggaaaac ctctgctagg gtagtgtgga nnnnnnnnnn 54600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 54660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gaattcaagg ctgggctagg tggctcacac 54720
ctataatccc agcactttgg gaggccaaag caggtggatc acctgaggtc aggagttcaa 54780
gaccagggtg gccaacatgg taaaacctcg tcactactaa aaatacaaaa attagctcgg 54840
cgtcgtggtg cctgcctata atcccagcta cttaggaggc tgaggcaggt gaatcccttg 54900
aacccaagag gcggaggttg cagtaagcca agatcgcgcc actgcactcc atcctgggca 54960
gcataatgag attctgtctc aaaaaagaaa aaaaatgaa ttcaaatgca cataataatt 55020
tctgtttgtc cacttaagtc ttcttttgt ctacggtaac aatgagtaga gcatatttca 55080
ttagttttcc gggactggct gctgttggtt ttgattaaca gcttcatctt tcaacaggtt 55140
caagatctta tttcttgggt ttcttttaa cctgaattgt tatgtcttca ttgtctttaa 55200
ttttagcttc gctcacatat tcatccaaac cgatgtccat ttacatacat atcaaggagc 55260
tcttgcccat ctggtgagca agggatcacc acatgtttag caaaatcagc agatctgcca 55320
aacccaaaca agtccagcaa ccaaaaacat gcatccaaaa atatcctgct aggcagacat 55380
ttaaagataa gctcatgaag gattaagtag atttagaatc acctaccct gcaaaaatgg 55440
ttgggtcaag taaacttgct taactcttgg tgatgtaagt agatcatata atatatgcca 55500
cagttaggat taaagaaatc ctagaagagc ttgttaatga ataatcaaca attatgtaag 55560
ataagtgtgg ttggctggaa aatatgcata tgacccaaaa aaagggatct catttggaaa 55620
aaggcatgag agaaatgact agagtaggtt ccaaatacac aaagaagcct agcttcagac 55680
cactgaaata taccatgatc tacaagtcaa caatataatc tgccaagtag caagcattag 55740
tatgatccct gttttctctt gctagcagtt ctatccttat atcctcctcc caaaatgcag 55800
ctgtcttctc tacctcagtg aatggcacaa ccatctaccc agctgcttca aaccaagaag 55860
tcatccttga tttccttgtg ttctcttgtc gccatgtctg ccccaccaga agtcccatca 55920
gccatacctc cagaatccac cccaacctac taactggtct tcatctcccc tgtcaccgtc 55980
ctgccccaac ctacagccac catctagaac taaactactg ccatatccca cctgccttcc 56040
tgcttctact tctgtgcctg cctacactca atcattcaaa gagcaggctg ggggccgggc 56100
atggtggctt atgtctataa tcccagcatt ttgggaggcc aaggcaggag gactgcttga 56160
ccccaggagt tcaagaccaa cttgggacat cacagtgaga ccctgtctat aacaacaact 56220
taaaaaatta gctgggcatg gtggctcatg cctatagttc cagctacttg gaagggtgag 56280
gtggaaggat cgcttgagcc caggagatcg agactgcggt gagccatgat tgtgctactg 56340
ctctccaacc tgggcaacag agcaagaccc tgtctcaaaa acaaccacca ccacaacaag 56400
caaaccaaga ccaggccagg tgatccacat gaaatataag acaaatatgt tcttcccctg 56460
cataaaacct cccaaaagct cccatttaaa aaaaaaaaaa agccaggtat ggtggctcat 56520
gcctgtaatc ctagcacttt gagaggccga cgtggcagat cactggaggt caggagttca 56580
agaccagcct ggccaacatg gcgaaaccct gtctctatta aaaatacaaa aattagctag 56640
aaattgcttg aacccaggag gcggaggatg cagtgagcca agatcatgcc tctgatcttg 56700
ctccagccta ggcaatagag cgagactccg tttcaaaaaa aaaaaaaaaa gccatattcc 56760
ttccacggct ttccagaccc tgcctgtgct gtggcctgag cccttgctgt cctcatctcc 56820
tgaagcccca gcttcctctg agtcatgtct gtgctcctcc aaggcccttt ggacttgccc 56880
tgggagctgc ctggaatggc cttcccacag acctcatctc acaggctccc ctctgcgctc 56940
atcctacccc cacgccattc actccatcct gttggtcctg tgttccttca tatcacttat 57000
tagaatctga gagcaattaa ttagcctatg cattctgaaa aaaatctgt ctctctccat 57060
tttgaatagg aaacacattt caacagaaca cattctcttg ctcactaaca catctccaga 57120
gcctaaaaca ctgcctggct tctagaatga atatatttgg taaaatctg tgaatgaatt 57180
aacagcatcc ctcaaagcca tctttgtctt ttaaagttct tgacatctta atcatattaa 57240
aatgtaagag aaaatgtgaa gtcttttcat actttctata acactcgata aagcaaaatg 57300
ttaggcccta aaattgtata aaataacata aaacaaaatc agaagggttg agtcaagtag 57360
gctaatacat aaactacatc agtgaagagc cccaaactga agatctttat tgctgtaatt 57420
```

-75-

```
gcatacataa gtgcaaagat gagaacggag aggataagga ggtggggggag aggaacccat 57480
cagggaaggg aacaaagtgg ggggggggtag gtaggaaggg taccagttat gacattattc 57540
ccacagcatg ttctgtctcg aagggcaact gacctcaaga ggattgttag ttagaaatgt 57600
ccccaacagc cattttctgg aaatcagcag agatactaat tatcgaaaat ttctctcccc 57660
atagataagc acattcttcc tcatccctca ttgacacccc agtcctcaga accccctgta 57720
tcattatatc gtcgccctct ccagttttca agaaactcct tgactgcgca tccaatgaac 57780
gcatagttct gttactgagc tgctatttaa gtataggca taacatttca tacaagagta 57840
tctttaattt tcttctttgt tttatgttca ctttgatggg ggagtagaga ggtcgtacag 57900
agccaatgaa taaaggaaga caaaatgcaa tcacatcaag ttgaaggaaa gaaattccca 57960
attctgagga aatgccttca cacaacatta agggatttta tacctttgtt gtttgttttt 58020
cacgctcgat gccacaccca gctgccctcc aaaataagat gatggggaag agttactagt 58080
ctctaacaca aggatggagt gaggtgagta taagaaacaa ccaggttagt tgattttaaa 58140
aaagagagag agaaagaaat aggattaccc tattcttttc tgtttatcca attctacatt 58200
tatcgactgg caagactgtt cacttctggg cttttaaagga ggaaaatgcc gttaacttgg 58260
gaacagtttg aatcaaaaag caagtgctag acatggctag tgtttgcctt tgcctgcact 58320
atactaatta tagttccaac ttgccaaatc aatatatctt ctagaactga gctctataac 58380
atttaacaca ccatcattct agcgttctgc ctctacaata acacagacct gtcatacaag 58440
agaagggagg aaaacattta agttatatat tttttcccat aagagaaaga gatctaccta 58500
gcagcgatta gctgcaatgt cattttaaaa aattgcagca ggaaaaatgt aaacaaatct 58560
caggaaggaa acttcacaag tcacagcaca acatggggaa ttttctttca aatgggaagc 58620
atcaagaatc aagaagctct ctgaatattt tatgtgattt attttcttaa tactaaagga 58680
agattgagga agactgcagg ctgtaatggg taaagaagag gaagcaaagt gaacaggcag 58740
atatagacac tttattattt attatcgtat cttgacctca gctggggctt tgtcattgtc 58800
tttaaagctc atcattattt tattcctata tattgaagaa ggctgataag agagcactgt 58860
tggcagcaac aaaacaaagt aactaacca tatgatgaaa aaccacggcc aggcgcagtg 58920
gctcacgcct gtaatcccag cactttggga ggccggggcg ggtggatcac gaggtcagga 58980
gttcaagaac agcctgaaca acatggtgaa accccgtctc tactaaaaat acaaaaatta 59040
gccaggcata gtggtgcgca cctgtaatcc cagttactca agaggctgag gcaggagaat 59100
cgcttgaact cgggaggtgg aggttgcagt gtgtcaagat agtgccactg cactccagcc 59160
tggggaacag agtgagacta cgtctcaaaa aaaaagaaa aatcattatc ctcaactaaa 59220
aatcctgggc tctgcacaag tgagccaacc ttcaattttg ttatgagaat ttcatccacg 59280
agaattctta cacatctggg ttttagaggc gtactcatcc caaccaatgc cacacacata 59340
ccacatacct gagaacgact ggcaatactc tgccttgaca atgagaatcc agctgtgttc 59400
atattcatta tgaattgtga atatgcctgg tgaattactg ttgtacannn nnnnnnnnnn 59460
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 59520
nnnnnnnnnn nnnnnnnnnn nnnnnnncct caattttttt taaaaaaaag ggcttgcata 59580
tttgttttac tatatttatt aaattcacat caaaaataat attcattaaa tgagagtcgg 59640
ggacttatta atcattaatg ttctccaatt attgctgtac taatcccctc acgctcttcc 59700
cacatattct tccacactgt agctaatcaa aagtgaagct tgtagaatca gctttgcagt 59760
catacactag ctataaatac tcctcttacc ttgagaagca aaactcacaa gcctagataa 59820
acatggacac cgcagttagg gggtaagttt ttattcacca tcagaacaaa tgttgcaatc 59880
ctcttgcaca atgaagaagt aaaatcaact ctccttgcac tagggtttta ttgggcctgt 59940
gaccattgac actataaaaa gtaaaaagta tttttatttga acagggctat acaatgtaaa 60000
aggcatttct gcatctactg tcagctctgt gaagtaggca gagcaggatt tatcatcaca 60060
acttcaaaga aactgaggaa tgaaaaggtt ctagagtctg cccgaagtca taagattaga 60120
aagtggcagt gccaaaactg gaggcacact ctgctctcct cattttttatt ccagggatct 60180
tctacttctg actcagccag caactctggg aaaagcttct gaccaacttt ctgcattcgg 60240
atataaaaga aacagaccat gcggtctgtg ccctgcaggg gctaacaacc tacttacaac 60300
aaccaaagcc caagaaggaa cattttaaaa gcagtctgtg tagaacacac tgccttaatt 60360
aaacatcctt agtggaactg ggaggttggg gaggagcaaa gataagatat aaccaagcac 60420
ttaggagtcc gtcatatccc aaagaatgtc ctaggcctac tagaggaaga caagctgaag 60480
aaaacatgct ccctgccctt aactaataat aataatagta ataataatac aataagatga 60540
tgtagctggc atactcttgt agaagagatg cagagtacag gctggttgct aactgctgac 60600
aacataccgc agggagagtc agtgtctcag gatgatgtat ttgctataat tgatgtggaa 60660
cacatctttt aatacccttc tcaatatttc tagtgtcaag taatacgaat gcatcaaatg 60720
tgcgtctcag ttcaccacag agaacagcca acttcttcaa aacaatatta aagacacact 60780
gtaggcactt tttcttgaag actgagagga tcttcctgca agagtatcta aatgaagggt 60840
gtacataggt tcagtgagtt caacatagag cagggagagt ctcccatttt actgagacaa 60900
gaaagtgtcc aaacaggaat agaagctttg atgacagaca gtaggagatg ctcttctccc 60960
```

-76-

```
aatacccttg atggtgcatg taacctttct ggttttactc attccaaaga ctaatcattg 61020
tcatgaggac gatcaagtga ctcagtgaca atccacttca gtatgttcat cttcagtatg 61080
ttagagccag aagaaatctt agagatcatt tcgttcaaac cactaattcc actgtaaaga 61140
aatcaaggcc caaatacttg agtcatatgt ctaaggttat atacatgaga gggctaagtg 61200
taagtttttgt actgagtttt atgtcctatg atagcattca attttaatca tctgtttgaa 61260
acttatattt taatagccta caaatatgtc actgatattt tttccttgtg tgcatgtggg 61320
tttttttgggt tttttggggt gttttttgaga cagagtctcg ctctgttgcc caggctggag 61380
tgcaatggca ggatctcggc tcactgcaac ctccatctcc tgggttcaag tgattctcct 61440
gcctcagcct cctgagtagc tgggattaca ggctctcgcc accacgccag gctaattttt 61500
gtattggtag tagagacagg gtttcaccat gttggccagg ctgatcttga actcctgacc 61560
tcagatgatc catctgcctc ggcctcccaa agtgctggga ttacaggtgt aagtcactgc 61620
accaggcccc ttctgtgcat tttttaatgg tagaaggatg aacaagacag ttgctgtatt 61680
ttaaaaggtg tcaacacagg tttctgtttc ttccaggcca ctatatctta tgcaaaatga 61740
gaattaaaac agatgtcttg tcacgttaaa tttttctctg accttatagc tcagacataa 61800
ctatctaata aacttccctg atatcccatg ttatctatca attgaaatat taggaggaaa 61860
taaggatgtt gacaagcaaa tctattataa gacattaatg ataattgctt aagtttatga 61920
tgtcactgaa tacagagata tcacatattc tgtatctcac atactaacgg cttatacttg 61980
ccaaataaga aaaaaataa ggagggccat ttatgatcaa atagaaatta ccatgtctag 62040
ttttaggtcc aaaatgctgc aggtttttata gtaaaaagaa gactgctaca aggataaata 62100
tctagggttg tctcaaagaa agaaaacaaa cgtgaaatcc aatagctaga caaaccatta 62160
aggaaaacaa gtcacaaaac acacaaggat gatgaactcc ctgccctcat ctgcaaagat 62220
gaccatggct aataaaggga tttggaccaa cataaagcag agtgaaactc tactacccct 62280
ggaggaatca aaattcactg aatccaggta cacctttgat ttagacactc ttacaggaag 62340
atcctcttag tcttcaagaa caagtgccta caatgtgtct tcataattgt tttgaagaag 62400
ttgactgttc tctgtggtga actgaggtgc acgtttgatg catttatgtt acttgacact 62460
agggatattg agaagggtat taaaagatgt gttccacatc aattatagca aaaacatcat 62520
actgagagta ttcaaaaagt gactttgtta tagagagttc tcggtactac atgtctatta 62580
aaatttatat aaagttcaat ttgactagca tcaagggatt ttttttcctg gggaagagag 62640
aaaaagacac tatccaactt caatttacca aaggctgaaa atgacaaaaa taaatagaga 62700
aatttaatct aataaatcta atgaagttga aaaaagaata tcatagaaca catatgatga 62760
taactaccaa ccacttttca ggacctatga caggttatga atttcctggt attttttaa 62820
aaggtcatga aataaatcaa gattaaaagg gaaaaactat agaaagacaa aagaaaaatg 62880
tttttttaat ttaattgttg tatctattaa gttaaatcca taaaagtgac tctaataaat 62940
ggcagcttct aaaatcactt ggttgaagag ttttaaataa atatttaaag cagtctcaaa 63000
taaaaggaat gagtcacaca gaccacagct gctgctctta cttttcaagt catacatcat 63060
tgactctccg agctggaaag aatatcagtg gtcaaattca gcctctccag ggctacgacc 63120
accccatttg atcttcactc agtctctatt ttaacatctc cagtgatgat gaaattgctc 63180
ttctcaagac cacgcatgcc aacactggac attctgtaag ggatggcttc ccttatgctg 63240
acttgaatca tacaaactgc tatcacatct agctccttca tcctgaacac attcagtctt 63300
ctgcttgaat ataaatctga ggtttcaatt gtgttcctac agtcaatgga aagctactgg 63360
aaaatttgga gagtggcatt aaaaatcctc ctggaaaagg ccgggcatgg tggctcatgc 63420
ctgtaaaacc ggcactttgg gaggctgagg cgggcagatc accttaggtc aggagttaga 63480
gaccagcctg gccaacatgg tgaaacctcg tctctactaa aaacacaaaa attagctggg 63540
cgtggtggtg ggcgcctgaa atcctagcta cttggaaggg ctgaggcagg agaattgctt 63600
gaacccagga ggcggaggtt gcagtgagca agatcgcgcc attgcactcc agcctagcaa 63660
caagagcaaa aactctgtct caaaaaaaaa gaaaaaaaaa tcctcctgga aggaggggga 63720
tgagtattta aaaacatatt tttggaggta tattttaaca ggatgtagag actaattaaa 63780
tataaggagg aggaagagtg gcatagcttg gctaacttgc acttccaaat ttctggctta 63840
agaaactggg taaagagctt tgttagatgg tattatctac caggaatcca ataatacata 63900
agggagcagg ttgggtttgg agaaaagatg agttcagttt gaaactattc ccgtatctat 63960
ataaagatgt ttaaaagaca atatgaaatt ggcacctgaa attcacaaga gagatctgag 64020
ctagaaatat gatttatcaa catgcaggga aatgttggat gtttcataga ctactcaggg 64080
tggatgttaa cacagactac atatgaagcc tggggagaaa gcatcattta attaggaaga 64140
gttataggtg gaagaagatc atatgaaggt gtctaaaagg catcccaaaa ggcagaaggc 64200
aatctaagaa aaagtatgca atggatactc ggggatgaat ggtgttctga ttggataaaa 64260
tactatagag ttgtttaaat tatgcttttg aagtatttta aataattagt gagattttta 64320
ttaatgttca atgtaagaca caacgtacta aattaaaacg ttaataatgt ttctgggttt 64380
taggaatatg gctccccaaa aagtgtatgg aaatccacaa aaacttacca tatttaatgc 64440
taaaaggaaa gccacaataa ttccaaaaga atctacacaa tgtatactgt tctatgatta 64500
```

-77-

```
tatttcaatt atttgctgta aaaaaaagca ctacctttaa aatctcatat aactgtaagc 64560
tatagatttt actaaataaa ctttacattt aaataacgtt cataaaggaa atcatacagt 64620
atttatacct gatagatact gaaaacattt ctttacctta acaataatca actagaaata 64680
aaactaaagt aagatcccat tcccattagt aataaaatat atgaagcatc aggaaatagt 64740
tcagcaaagg aaacacaaac tctttatgga gaaaagtcta aactctatta aaatgaataa 64800
aagatgatct gaataaatga agagatcttt cacattctca gataaaatga tattacaaaa 64860
gtggaaacag tcctcaattt aatctatgaa ttgactaaaa tctcaatcaa acaacttcag 64920
gatttttaa gaaactcaac aacctattct aattttattc taaatttata tggaggccgg 64980
gtgcagtggc tcacacctgt aactcccaca ctctgggagg ccgaggtgag tggatcactt 65040
gaggccagga gttcaagacc agcctggcca atatggtgaa acccaatctc taccaaagat 65100
acaaaaatta gccgggcatg gtggtgggcg cctgtaatcc cagctactca ggaggctgag 65160
gtaggaggat cacttgaacc caggaggttg aggctgtagt cagccgagat cacgccacgg 65220
cactccagcc tgggcgacag agtgagactc ggtctcaaaa aaaaaaaaa aaaaaaaaa 65280
aagaagcata aactaggaaa gcattctgga aactaatctg acagtaccta ctcaaataaa 65340
accttttatt taatgacctg acaattccac ttccaaatgt atatcccaga gaagttctcc 65400
catagctccc tgtatggaaa tattcatcag actgttttct ctggtggccg agaagtacag 65460
gaatctagat gtttatcacc atgctcatgt ttaaataaaa tctagggaat gtgcccagag 65520
acaccacatt gaacagctct aggggaacat tactcacaca caataaaagg tgaatggtga 65580
ccctggtgtt gaacaaccca gcaggacttt cattcttagg aatagtatat aacagtggga 65640
agcaaaaaca aggtggaaat tcacccagaa aagttcgtag attttttttcc aaaggtggtt 65700
gagttttgtt ttgttctttt taagaaacag aatgaggtct gcaactcaga gtatttgtat 65760
aaaccaaaca taaacagaaa tactatatac tttagaaaaa tgcagactaa ttcaaagaga 65820
gcaatagata aaagcannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 65880
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngaat 65940
tcagtccaat caagaccttt attttgctcc ttggtccacc gccttggacc gactcccact 66000
cctgctgccc aggcttttgc cagcatggac ctgcaaggtc ccataagctt tcagcgtata 66060
gtcgtctcct ccagggcagt cctggcaaca ctctatcctg gctatttaa catctatctt 66120
tagatctgtc tttttcttacg ggttcccaac tgtacagtga agcaagatca agcagttcct 66180
tcattgcaca gatgacctcc accctaagtg aagagtgaat ctgaggggac aaacggaagt 66240
tatctgtaca tcaagctaac aatggatttt taaacagaaa tcagaacaat cttttagagg 66300
taatggatac atgtacactt ctttaatggc agtgatggtt ttgtggaata tatttcaaga 66360
ctcatggaat tgtacatttt aaattgattg gttctttgtg aaattgatta tacttcaaaa 66420
acccttaaag aaatttaaat actaacacac ctgggaattt gagcactta tactgatcaa 66480
cataaaatat aaataaacca ttcatattgc aaaacgtatt atggagtcat aatgaggaat 66540
tctggaaggc tagaataatt atatgtaacg gtgtattatg attcacaccg ctcatgtgta 66600
tgaatacatg ttacatacga ttatatgtaa cagtgtatta cgaagctaga gtttaatttta 66660
ttgaagccat ttctactttt atttttattt ctaaagaata taaaacattt ttaaactcca 66720
aatttaatat gttatctaag tgaaacaaag tcaaatgcaa aaatgtcaat atctgccttg 66780
tgaaaggcag aaggtccttg gaagtcaatg ataagacata aatgaaaggc caccagaggg 66840
cagtgcagga ctgcttagga caatgagtgc cccaccctcaa catttccaca agctagcatt 66900
gaaaacacgt tttatcatct tacagaatgt ctaaataaat atttattttgc tattattctt 66960
tcatataatt tgaaaaataa taaaaatttc ctacaggaaa caaatagaag gttatccact 67020
aactggaaag tatatctttt tacacattca gatatgtaaa attatgcaag aaagaatgag 67080
tcaagttgga cttttaatcca tcaagatgta aaagtttaac tgcaaacaaa tgaaacaact 67140
aaattaataa gtaaaactca aagtcttaga aggaaatata ggagcaaatc tttatgacct 67200
tgaatttggc aagagcttct taaacatgtc actgaaaacg ctagcagtaa aaaaaaataa 67260
aacagatgaa ttgtatgtca acaaaattaa aaacttttga gcatcaaaac acactcttaa 67320
gggagtataa agacaactca agactgtcag gaaatattgg taagtgaaaa atctgataaa 67380
gattttgtac ccagaaaata taatgaactt ttacagttca aggacagaaa cgcaaccaat 67440
ccaactacta acgggcaaag gacttgcata gacattctc cagagaaaat attcaatcgg 67500
tgaataagca catgaaagat gatgagcaac cttagatatc agggaaatga acatcaaacc 67560
agcaatgaga taccactcca cactcaccag gatggttata acaaaacagc agcaggttct 67620
gttgttgtct caagacctgg agctggaact ggcttgggct ctggagctgg agttggggcc 67680
agagcctgca gtggctgcat ggctggatct ggtgctcttg ctgggactgc cttagccctg 67740
gagctggagc tgttgatgga gcttgcaaag gagctcggga gctggtgcta cggtggttgc 67800
tgctcttgct tccagctctg cagatttccc tagagcggct ggttaaggct gcagctggag 67860
ctggtggtgg acctagccct gacacacact ctgaaggtgg cttttgagct tgaactggag 67920
ctggctctgg agctgccaga ggaggaaaga tcactaacat gactgacttt ccatgtgcct 67980
tctactgaca aaaatcttcc ctctgccttt ctgagaaact cagagaaact ccacacccag 68040
```

-78-

```
gaagtcttcc agactgcagt cggccacatg attgggctga gtttctcatt gctgcgtccg 68100
ctcctcagct tctggcagct ctgctctgtg cagtccagcc ctgtccctc cccacgggct 68160
cacatgaacc caccccagg cctcctcaca caccggctgtt gcttcagtgg gccctgggtg 68220
ctccaactga ccctgggtg gctcctccct gtcgccagtt gctccagcaa agcacagtgg 68280
acccagcctc cctggtggtg ggtgctagca ctgcacccaa gggaaaaaaa tcaccaacca 68340
acacaccttt gtttgaatga cttcaaggca tcagctctcc ctggtttcag ggaacaaagg 68400
agcaggagct gtaggatcca gggcattgag agggaccccg caaactttcc ttgtccccct 68460
attgccagca atagctctgg ggtccagttc actcatgagg ccacttcacc acagccaggg 68520
cagtgactat gggttcattt ccagtgagga ctgaaggctc taacagatgg tctttgcctt 68580
attcaagatg agtagttcag tgctctgcca tgttcttcct taccccacat ctcagtcctc 68640
cagtctctct ctgattcact ctgctgcaaa agactctgag gaagtagaaa gcattttcca 68700
aggaccacgg agttcagtaa gtcatctaca gggaacctgg agccatagac actttctaaa 68760
gtgtcacctt ggggtgacca acccatagca tcacaatatg taaggaggta aactgaggcc 68820
ctcttgcctg tagccctcct caccctagga ggtcttgtct cagttgaagg tgcccagtat 68880
ggtggacata gaaccccaag taccatctgc ttctgactgc tgtgagatgg tctcagacca 68940
ggcagacccc cgggtacctt acagctcccc caggccagca tcctggcatc tctttccttc 69000
ccaggccatg gtcctggtca tggtgctaga agagtgcaga gatgcctcca gccttttctt 69060
actttttccct tgttacctcc ccagggtcca cttttcctct tacttcagcg ctgtgatcat 69120
caagcatgtg ggtgcatacc catggggttg ctaagaggta cagggcccac ataggaaggc 69180
tagggagggg tccccagtct cttagggaac cccatgtgag atggttgagc cctggcctag 69240
gaggtgggaa tccattattt tctggacatg cccacgtcct ataccctcac cagtctctgc 69300
ttgtctctgg gactcaggtt cccaaatgtc caatggcggg tggactggaa ctgtgtagat 69360
aggagcttag catggacagt gttattccct tcaccctgac agggtgaggc agagagggc 69420
ttcagggccc acacagactc ttttcctggg aaggacacag gtggaccaag cgcagggcca 69480
ctgggcctca tgttcatggt gggcacgccc actgggccag tgtgggctgc agacagtgca 69540
tccctgaagc tcccctgcac agcacatggg aaagtcacca gtggttcctc caatatctga 69600
tctcacgtag actctgtctc ctgtagccag gaagtgtgtc agcctcactt aggtacatgg 69660
gtttgagccg gggggtagtt tacctaagag aaactgaggc atggggacaa ttagaagtag 69720
acatggacat gggccaagtg aaagccccag atctttagaa tcgtacagag catccaccct 69780
tttctctctc atgcagacag gactaagttc cagagaaagg aagcaaccca gaatgtgcta 69840
ttatttgcca attaattgaa ggcaggaagt ctgctcttct tctcagtcca cgcaccagca 69900
gacttcagag ggcctttgtc catcgccagt tgggctgaac tgtgatggta tctgagcttc 69960
aattttcctt ttggtcagtt atacatacaa atctgataaa ccttagtgcc gtggcctctt 70020
cacagaaacc tctccgtcag aaaaatctcc ctttttaaca cctgagcagg acgaatgcag 70080
cagctttta aatgagagct ctctagggac ctgcttcagc catgggccag ggtcgtgcag 70140
gggccaggat ccaggaacgc taactgcgcg tgcgctagcc tggaagctgc cgcgagccgc 70200
cccccgccc ccgcccgcgt ccttgtgcca ggtgtctagc cccagggact cagcagtgtg 70260
ggctttagag cggctctcag gacttccagg aaaggctggg gacgtataca tttacgccag 70320
tcaaaaagac cccttctcc tctgttctct gaagctcaga atggtggaga gtggacagga 70380
cttgaatggg cgacccctg atactgcaag tttcctctgg cttttgcctt ttaacccatt 70440
accgtccacc ctggcacaag gcaggttgtt gccttcagct gccagatata tggcatggca 70500
cagatgggca gtggaattcc agctctgagc actcccggcc cccattctta tcccagtaat 70560
ggctggggca gcagaaccct gacacttcac ccgcgagcct ggataaaaag gctcccatga 70620
cctctctctt tagccaaccc cgctgggtgc aatattcaga agtgctcccc gaggtttcca 70680
attacccgct gtgccccacc tgtggcagag taaacctact tcctccagac tcgcatggca 70740
gggactgacc aagaaggaaa gcggccctca ctccagggtt ccgtggtgat acctgcatca 70800
gcacaccagc ccggggggtct gcactcagcg gggtctcagg ccatcccgca gctcatctgc 70860
agtgctcgaa ggaattgtgg gtgagaacca ccagtacagg gagcctcatg cagaaagagg 70920
gacacaaaca ctacctgtgc atatatgcac atatatagta tagttacatt tatatatgta 70980
tatacataca cacacacata tataaacatg ttatgtatgt gaagaagcac attgatcgtc 71040
tgcatggagg atctcatttta aaagataaat aacatatcat gtcaacatgc atgcacacat 71100
ttatgtaaat gaatgtgaat gtgagacagt gagacagact ggcagagaaa gagacaatga 71160
gagagacaga ggctgagaga tgtggccaaa ccatttaata tggtcagatt tggtggtagg 71220
acattgaaaa tattttattt tcttctctaa gtgatactta aatattttat aatgttcaca 71280
ttatttttat aattataaac agatgaacat catatacata tgtatatagt aaacaaaact 71340
ccacagaaac acacacattc acacacagag atattctgcc aagggcccag tctgccctct 71400
ctgcatgagc tggcagcaag ggaataagaa aatgccacag gatcctatca ttgccacctc 71460
caggagcccc tcggctgaca gccggccccc tgcaccgccc ttgtttgtag gcacagctca 71520
aatgccatcc ccctggagtg gaggagatga cctcttctcc tgaacacatt actgagctgt 71580
```

-79-

```
catttgtctc caccagactg gcaggtttat atgtcgggtg acaaccagca gtggtgagaa 71640
tgtgggaagc agaggccccg gcagatcccc tgggagaatt gtttatggat atgcctctct 71700
tgagctggca gcatctatca aagctctaaa ccactgtctc tttacctagc agtgataacc 71760
ctgggacttc atccggtaga cactggtgca ccatgtttca agatttgttt ttaagactat 71820
tcatcacagc actggttgaa ataacaagga attggaaaca tcattaacat ccacatagag 71880
aggatgggtg aagaaaattg ggtccgtgtg aaccagggaa taccaagcag ctgctgaggt 71940
gggtatggtg ggtctctatg ggcccacatt ggaaagactt caaggaaatt gatgtgaaaa 72000
agtacattga cggtcagtct gcattgagga tcttattgtt aaaaaaataa atatatacca 72060
tgtaaacatg caggcacgca gatgtgtaaa tgaatgtgca tgtgaggcag tgagacagac 72120
tgacagggaa ggagagagac aatgagagag acagagcctg agagatgtgg ccaaaccacc 72180
tgatgatcag atttggtggt gggacattga aaatatttta ttttctcctt taagtaaaac 72240
ttaaatattt tagaatgttc atcttatctt tacaattata aaaagatcac atcatattaa 72300
atactatcca tttaacactc acctattaaa taattgatgt atatttccta gttttaattt 72360
ttataggcat tttattacaa agccaaaaat atgtaatata ttaatagtaa aagaaggaat 72420
tcaaaattaa tgaaaaataa aataaaagat ctagtccctt cacccagaca cagtgccctc 72480
cccatgagat gctcctcctc ctgtcctggc cctccgtgtg tagcccatgt gccctgaggg 72540
ctgggtgggg aaacttcaag ccctcagctc ctctgtgatc tgctgtcccc annnnnnnnn 72600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 72660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaagggttt ccagagctac tttgatctat 72720
tttttgcaca cacatttttt ggacaaaaag atttcacatt taagcttttt ataaagaaat 72780
ttaataatat gatttcctat ctagtgagca aataaataat gttatgttga tttgtactta 72840
tttgggccat ttaaaaattg tgataaaaga taatacatt aaatttacca tattaactat 72900
ttgaagtata caactcagtg atagtaagtc tattcacatt attcatttcc agaaatttgt 72960
tattgtacca aaccaaaact ttgtgtccat taaacaataa ctccgcaatc ctcctaactc 73020
tcatcccata ggaatctcta tcaactctct gtttctgacg gtgcctattc taggttcctc 73080
atacatgtgg aatcgtacaa tatttgtaca tttctgcctg gctgattaca tttagcataa 73140
tgttgtcaaa gttcatccat atagtagatc tcatttcttt taaaggatga gtggtatccc 73200
attgtatgtg ttgatgttta cttgtagaat aagtaattta tatatttttt ccatgaacaa 73260
ctaactgaaa ggcaaagcaa actactgata aaagagacta gaactggcta caaatggaat 73320
cctggcaacg ttatttaact attccctaat ttaaccaatt ttctaagtaa aacaatgaaa 73380
agatgagtag gagttgctgc ttttttggtgt ctcacacgct aatcatatag acaatatgtc 73440
cacagagagc acagtaaaac aattagaaca aattcctaat tgcctgttaa gaaatgctgg 73500
aatattcaac atgaattcta tcctatgacc tgggtgtaca tagaaacttt gtttattcag 73560
gtttgcctct tgtttaactc agcatattat gatgaattat tattgttatt atattttaaa 73620
gtaagatgga gtcttgctct gtcacccagg ctggagtgca gtggcacgat cttggctcac 73680
tgcaacttct gcctcccagg ttcaagcaat tctcccacct cagcctcctg agtagctagg 73740
attacagctg cccaccacca tgcatggcta attttttgtat ttttagtagc gacggggttt 73800
cgctatgttg gccaggctgg tcttgaactc ctgacctcag gtgatccgcc tgcctcggcc 73860
tcctaaagtg ctgggattat aggcatgagc catcacacct tgccctgatg aattatttta 73920
atggccctag aaagccctgc atttagttaa ttttccatct tgctttattg atctgaatag 73980
agcatgcaat ttttgtgtgt gttgggcagt ttgtgttctg atgctcatgg gatgccacag 74040
aagtcgagga ccaaggatat tttcttgtaa aaaccaacat ttgcccactt tagaaaacca 74100
gagaaacaaa aaaacggaga tttactttcc tccaggagga tgctgttttg tctcctgaag 74160
aagcttggta agcctcagtg taggatgtag gtgatggttt cacatgaggc atgtttttaaa 74220
aatcctctct gatactcttt tttatgtctg gtggccaatc tcaatcaaag gaaggctttc 74280
ccctgctttg tgatgagtga ctcttggcat gaagcaagtt aggttcctcc actcagcgat 74340
gtggtttcag tctcagactt tcaatggaaa caaaaaggaa ggaaggaagg aagaagggaa 74400
ggaaagttta gatatataaa gaccaataat cagattgtga attttgactc accatattta 74460
ttcatttaat aaaaaattat tgagtaccta cgatgacaat gcaatcagca gagtggacac 74520
tagaaataca aaggtgaacc agataaatct ctggccccat ggagccagac agtcaggagc 74580
agagctggtc agtgacagag cagttgtcct gctgggacct tagtgctgtg ctaggaagg 74640
ttcctggtgc tctaggatga ggtagggata gaaggtcaga gaagacctag acatcaacta 74700
actgcattac attatttcct ttaagtgttc aagacttcag caattcacag gttcaaattc 74760
aatcatggat caggagttgt aataaagatt tctcatgtca ttctggcacc tggcaactca 74820
ttgtttattc aatcagagat tatcagaata aaaatcaaga ttgtgtcatt aaacaaagga 74880
atgagttaaa tagtaagttt atgatattaa tttactaatt tgtttacag attgtaagtt 74940
tactaataat gcaatgtttc gttaggtgct tatagcaaca ttacttagaa aaatcacaat 75000
ggctgaaaac tcactggaa tctgagctgt acttctgtaa tcaacagata tatattgggt 75060
gcttactaag agccaagcag tgtacaaggc ttggggacac agaaaacaac atctctagag 75120
```

-80-

```
ttctccactt tctgtctatc agtgctcact ctctaacccc catcagccca cattaagtag 75180
gaggcattta atgatggtga atggactttg atctcaggta ggtgagatct gttacattaa 75240
ccatgatttt ttaagtcctt ctcccctttt aaaacttctt atccagctga tttcctggga 75300
tcctattttt tctgggtttg gaaataggtc ttctaatgat cacatgtctc ccagcttgaa 75360
tttgcagcca tactagtcag ggaccatatt cagcatatcc cctgatcagc tggacatagg 75420
catcaacttg ctgacacgag caccgactgc tcagtcctgg gcactgaccc atcgggatgg 75480
tagccaggcc gccctcagtc ctctaagggt gggattcatc accaccaggt ctccggcttt 75540
cactccggtc tgttaattcc atccactgat ggatgcagat gtcagatccc tggtacctcc 75600
ttgggccttt gcttcctgct tggctgtcct gatgttgctg agcccaggac ccttcctcca 75660
gatctgtcta cttgggctca tgttacttca ttcttttcat ggcctgttct ggtagccttg 75720
gattccagaa tctttcccct aggcttttac tccagaatgt gattttttcca tcattagccc 75780
ttgttaaccc aaaaactatc tgtaacaaat ccttctggtt gacctagaat cagagaaaaa 75840
taagtcaact cagcaaggta acaaaacaaa aggtgaaatg aagaaatccg aactctaatg 75900
caggtaagag tgagcccaat gctggttgctt taaagaatgg ggtgcacggc ctttccatgt 75960
cccaggcagc tgtctctgct actgtccatc tgccctgcct cccactgata cacacttact 76020
cattgttcta acatacataa gtttgtccca gtccaagcca gaggtagaca gtaaaaacag 76080
acaactgctt aatctgggga gttatctttc tagaagactc aaatacacct gcttttaatt 76140
ctagcttagc tattcactca ccagctttac agtccttgtg aacttactta ccctctgagt 76200
ctcagtgttc tcatctgtca aatagagtta tgatatccat gtattcaaaa aaaatgcctg 76260
acatatagta ggtgtgcaaa gaataggggc tattttatta aattattcaa aagtattttt 76320
attaaagaaa gcctcttgga gacatgacgc cctaacagaa aaaaatgaac ctagggtcag 76380
gaggaggcat ggggtatttg aacaacattt cattccaacc acaaagccgc tctgccttca 76440
tgttgttacc ttgtcattct aaactctgtg cacacacaaa cacaggcaca ttagttaaca 76500
cggtaaatat aaaaaataaa tgaaatttta aaacacacaa aaagcaactc aaaattcctg 76560
aacagatctg ctaatcattg tggatattct ctgctctctg ttgagtagcc agctctaatt 76620
agtcggccct gtacagagct agacaggcct cagtcacttg ccaagaaaca aacagtgatg 76680
ccccaagatc cacaggtgta aagtcactac aaggtgccct tctaccacat taggatgtaa 76740
aatatctgtg aaaaattgag tcactgggag agtgagaaat aacatagagg cctgtacatg 76800
ctgaagcttc cttcgatctc tgcctgcccc acccctgccc tgctgcaggc ttggtcctgc 76860
ctggtccctg agctgctaag aatgaagcca ggtgtccact aggcccttag ctctgagagc 76920
gggtgtctgg tttgggtttg atgcctaagg ctgctatcca ttgtccaggg agctgcaggc 76980
ccctctgtaa atctgtgatc tccgtccaga tggttgagtt tcctgcctgg ttcctggttt 77040
acatcgaaat ctcatctaag cctagacttc cttgctctct gctgatttga caggggtcta 77100
agcaccgagc ctggctcctg ctgctcttct ccggtgggct ggatcctgcc tctccctctc 77160
tctctctctc tctctctctc tctggtctct gtctcctgtg aaatgaactt tcctggaacc 77220
aaaaggaact catccatcat atatggtcag tgtcacagag actgtggcct caacacttaa 77280
acttccaaga ccctttgaaa ctgatgccgt cgctgtcctg ccctgggtgt cacatccca 77340
gggctttgac attaggatga ctgctcctta gctggggca ggcctatcat caggttggtt 77400
tcctcatttc caaccctgac tattacaggc tcactctaca ttccctgctc agcaggtgcc 77460
tgcagacttg cccttgagtc ccatcctcct tagggactag gatcactttc tctccattca 77520
tgttcttatt cccatgggtt cattttataa aaattttatc caatatgtgt gatgtacaaa 77580
gctccgtctt ggaattcctg agagatacat cctaacatca tctcgatccc caactttcca 77640
aaaccacggt gacacttcac aggagtggct gtgtgcagag gagaagacag gaagcagcaa 77700
gagcagccct gggctgggtg cagacgctcg gcacgggagt gggttcctca gctggccgtg 77760
tgcatcttgt accatgcaca ccatcctgag tcttcacagt aaaactgtgc aacagaaacc 77820
tgcaataagg ctctctgatt tttttcagac cattacaaaa accttaaacc cacatatctc 77880
tcatttttac atttcatatt tgctttctgt ttcacaccca ggatacaaaa gcgaattcat 77940
tttcaccagt tcattgtcat gacttgggcg cgatgaatga aatgtttagc agctgtgata 78000
cgttcgctgt ctttgtgttc agttctagcc tgagtttccc caaagcaaaa gctatcttta 78060
ctattgagca tttatacagg cctcatggtt gacaagaatt tatattcttt acacatgaag 78120
gtatccttaa agaaccaaag tgaactacat ctcatatcac ggagacagtg tcatcaagct 78180
gacagaggag gcttctggga gaaccaacaa tgctgacatc agccagtctc attcttattt 78240
ctaggagttt tgaggagctt atcataccag cggttttgt ttttcccctt tcctgaattt 78300
ttatttt act tctaattcgg cactgaggct ataattttat catttggggc atgatttcct 78360
cgaataacat ttaaaagatg caggtttcta ctcttcctcc tttcttagta gaagtttcca 78420
tattcaaagc agtcattttt taatcatttt aattatctaa tcatccacat catagtaaag 78480
ttcttaatat agaaattgat ctggataatt tttgacttct aagccttttt acttttgata 78540
attagttatt ttaaaagttt cctgctaaat atcagtcttt agatattttt gaatctgaac 78600
accaagtgac tttggtcaga gatacagaga ggaaaaagac tgaatttaat ggaaaatatc 78660
```

```
ttttatgtac ctactatgag catggtattg tgctaagtga cttgggatac aaaaggaatt 78720
cactcgctct ctcattgagc gtatctattg agccacgact acctgccata agcacctgat 78780
gtgttgtgcc aggcacctgc taggtgctgg tctatgctgg gaaatgtacc atggatgata 78840
ctatctctag agcttacaat aaacttgatt aaaaggaaat gaagttgcta aatacctgat 78900
aaatgtacat gatgtgacta gtgttctaca tggattattg tttaatcctc aaagccatta 78960
ttacctgtat ctttttctggg aacctgagac aagagaggct ggtaacatac atgagattgc 79020
actgtaagtg atgaaatcaa gacttaaatc cagtccttct aactccagca ctgttaagtg 79080
gtgaaaccaa gacttaaatc cagaccctct aactccagtg ctattgggta gagaagacgg 79140
gacaattcct ctcttccatt tacttattat ataaagaaaa attgaagtaa gaaataaaaa 79200
agtcaatagg aaatgtattt cctgagctgt ctagacattc ccatggatga gtgtgtacta 79260
actgggataa tgcgggcaag gagatggggc agtatttgaa acagacatat actgtgttca 79320
agtacagtgg ttctaaccac ctaaagttgt taaagggcca ttaactttga gtgactcaat 79380
acactggatc cccagcagac ctaaccaaag tctctgtcct ggccagtgaa cagtgagact 79440
tgtatcagct aatctcacac agacacttca agaacgtttc tgggaatcga aaggtctagt 79500
acatgttgag atatcctctc agtttcttcc cctttatgaa aatgtgggga agttatttga 79560
agactcaatt aaaagtcaaa cacatcttgt atggttgaga tttgtcctgc atgatgctgc 79620
atatctctta gacaagtgat cgctatgtgg cattactaca cataggtcta atacaaagag 79680
gtacctcttg gttagaagac aagggtctaa aaaccaaaag atacctctca ctctcacgta 79740
taataaccta atatttaaga attttacttc tccttcctgt aactctgagc tttgcttgta 79800
ggagtgtttt aggtacaaat aaaggaatgc ttaaagccgg atgcaaaagt aattctcttg 79860
cattggaaat tgaatccgcc tcctaatcat ttcacggtat tcattacacc gaaacagctg 79920
aattgttgtg gtgctacttg aagtggttaa tactaactac aagggaaaac agaaaagcta 79980
cataatgggt ataggaacag tatggataaa attcagatga tcccaatgga gatttttaaa 80040
atttcatatt ttcattttt tttcataaga gtatgtcagg atacatacac ttcaatatgc 80100
aactaagatg gactaaaatg gatccgattt actttcctgc ctaaaataac taaaaaacaa 80160
aatgtataaa acatgcaaaa tatatgaagc agctgtttgc tagacaatga acattaagca 80220
acaagggaca gtgatccttc aaagacaaga aataaacaga aaagccagat ggttgccccg 80280
atttactact agggaaagtt tacagactgt ggtgcagaaa agggaactcg ggcagtgccc 80340
agaatcttgc agagttgaga agatgaatct gggaacctgc agaggacaag gcagttatat 80400
cttccaggac agagctgtgc cagagaggag aagattgaca gagagagagc ccagatgtct 80460
gcagagaaat ccctagtatt ttcagagcag ttctgcatgt gatgaaacta ctcaagtgtg 80520
gagaaataat caccaaaaag aattagaggg aattatcctc agagctcata cagggctgga 80580
aatagtgcct gttcccaaag gcaaaagtga aaaacattat aattcataga gcatctgcta 80640
gaggactgag aagggtgctg tctccagggt gggaaacatt aacaactcta gattgaaaaa 80700
ctgttttgat cccaccaaac gcaataaaaa gtaagaccca aaaggatcaa actgaaatta 80760
attacatccc agagcaaaac tgaagaacat ttctagcaat acaaaaatat ccagcacaca 80820
agaagataaa aatccgttat tttcttccaa taaaaactta ctaggaagga ggaaggaagg 80880
aaggaaggaa gagagagaga aagagagaga gagagaaagg caggaggaga aagggagggg 80940
aaggaaggat gaaggaagga aaaaatgaag gaaggagggc agataggaag gaaagaagat 81000
acaactcata ttaaagaaaa aaatccctga atggaaattg acccataatt aacaaagatg 81060
ataagattag caaacaagta acttaaaaca gaattatatc ccaattcatt atgctcactg 81120
tactagagga aatatactag tgaaaacact gaccaagtca catttagagg atataagaaa 81180
gagagaaaat aaacttctag agattaaaaa tacaaggtat gaaatgaaaa acacactgga 81240
tgagatgaat gcagatttta tattgcaaaa gaaaatattt gtaaatttta agacagggca 81300
atagaaataa tccaacgtgg atagaaaaca tgaagaaaag agttttatta aacaaaaagt 81360
gcatcagtga gccttaggac aacttcaagg gtcttattgt agctgcaatt agagtccctg 81420
aaggagatgg taaagataga gttaaaataa tttaaaattt gagggccaca attaattctt 81480
tctttctgct tgctttcttt ctttctttct ttctttcttt ctttctttct ttctttcttt 81540
ctttctttct ttctttcttt ctcttttct ttctttcttt ctttctttct ttctttcttt 81600
ctttctttct ctttttcttt ctttgtttct ttgtttgttt ctttctttct tttctttctc 81660
tctctctctc tttttttttt ttttctgaga caaggtctca ctttgttact ggggtttgga 81720
gtgtagtgac acaatcatgg ctcaccacat ccttaaccac ccaggctcag acaatcctcc 81780
cacctcagcc tccgaagtag ctgggatcac agggacacac caccactccc agctattatt 81840
tgtatttttt gtagagacgg gatctcccct actcccagg aaggtctcga actcctgggc 81900
tcaagcaatc tgcctgcctc ggcctcccaa aggatgggat tacatgagtg agacactaca 81960
tccagcctcg aaattttcta catgtcgaaa atgacaaaac aggaaaactc aatgcacaag 82020
aaaccgtaag cacaagaagc ttcaggaaac gacaccaaag cacaccaatt acatttctga 82080
aaactggaga tagaagaaaa tctgaaaact gaccagataa aagattttca caaataaaaa 82140
gacaagaatg accattgatc tctattaaaa ctaacaagta agattttggg taagtaagat 82200
```

-82-

```
gggttagatc aggtaacagt taaagaagac ataatcacca aggaaattca tggaaactcc 82260
gaagaggttt ccatgagaac catgtaagta tcccaggatt aaagagacct tcagaaaaat 82320
taccaaggct tcagaagatt tttgccaaaa tgctataatt tggttagaaa atttgtggca 82380
caaatacca gtcaacactg gattcattgt ttgttggttt tgggagacag tgcatagtta 82440
ctactataat tatactttgt taaatatgag attcacttat atttcacaat taaattttt 82500
tttcaaaatg aattgtcaag catgttttt ctccataact tctttgaaga actggcctct 82560
aattaataaa gtagctgact cctggttccc attatccatg ctaaccaccc ccttttgtgt 82620
ctgtctccca cagaatccag gagctccatg taggcagaga gcatattggg tctctggtgg 82680
gaggcagagc cccctccccc acagaagctg aatatgaagg ataccagggc tggtggctgg 82740
tgcaggggta gaggcgtggg tcattgctgg aggaggctgt gtgggttggt gtttctggct 82800
gtgtccagct ccaaatctgc cggcctgata ctctggctgt cctgaagctt tcacgagcac 82860
ctcatgtgct ttgagatttt ctctcctgct cacacaagct ggagtggtgc tgctattaaa 82920
gctgagaacg tcatctgtct cctacacatt cacggcggtc actataactc gctgacctcc 82980
ccttacaagt gctttcctga gtgagagaaa ggagctccgt gcttggaggg agaccaaaca 83040
ggcagggtgg ccagacctgc cccctattct ctcctggatg gcagcgcctg gctgctttgc 83100
tcagaagctg agttatggag caggagggc tcagcagggc tttctgggct ccccggttca 83160
ttccaggtgc cctggtggtc tccactgctg gcttgtctac ctccctgtgt tccctcaggg 83220
ctcagcccca ggatctgtgc agcccccact ttcctcagcg agcatcnnnn nnnnnnnnnn 83280
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 83340
nnnnnnnnnn nnnnnnnnnn nnnnntgct ttagggtttt tagtatacat ctttaacttt 83400
ttacagtcca ccttcaagtt atattataac tcttcacata tagtataaga accacctcct 83460
caattcaagc aattctcctc tcaagtagct gggattacag gtgtgcgcca ccacgcccag 83520
ctaatttttt gtatttttag tagagatggg gtttcgccat gttggccagg gtggtcttga 83580
actcctgacc tcaagtgatc cacctgcctc ggcctcccaa agtgttggga ttataagcat 83640
gagccattgc tcccagccag aacatttaa tagcatactt caacttttcc cctttcctct 83700
ttgttctatt gttgacatat gttaactgta gacatgttat gaatcccaca acacattgtt 83760
ttcatttttt ttacttcaaa tagttgatta tttttaaaa tgtttaaata ataacaaaaa 83820
acttctatac aattacccag atattgatca ttttgattgt tcttcattcc tttatgtaaa 83880
tgcacatttt tatctggtat tattttcctt ctgcttgagg cagttccttt atgtttcttg 83940
caggttatct ggaactgtaa aggctctaaa atgttagcca atattttaat ctaataattt 84000
aacctgctac agcttcttgg gtgtttgtgg aaagcataag acttctgtac attggacagt 84060
ttattacaca cagtattagc aatagacaca gtattatcga cattttcgtg ttagttccct 84120
aagccctaat tttccaagag agacataaag aaggccagat gaccctatg catacagtgg 84180
gttgaactac aaaagaggag cccagagttt acgtaatgca aaatgtttat aattggcagc 84240
aaaaattctt gttattttct ctgaagagtg aaattatctt tattacacag gacaggaaac 84300
atgcctaccc tttgctcaag agggagatat tatctcccaa tgcttctaag actttacctt 84360
ccaaaattgt ctgctataca aacattatga acaccttagt ctggaacaaa caatactcag 84420
ttcttcactt gcaagacatg gaaatgtggg agaaccatgg aaaattgtct cctaatgcag 84480
gtctgctggt gatgaacact tttgtatatc tgaaaaatgt taatttatc ttcattttc 84540
aataaatatt tttgctgggt aaaaaattct atgttgactt ttttttttctt tcagtactta 84600
caagatattg tccaactggt tttatagctt gcattgtttt ggaagaggca gccactgtca 84660
acatatgttt attattttgc atgtgattct tttttctctg attggttttt aagattttct 84720
ctatcactag tttccagaaa tttgatttta atgtgtcttt ttgtaatttt cttcatgtac 84780
ctttaaaaaa tatatgtaac ataaaatttc ttttttttctt tttctttttt tttttttttg 84840
agacagagtc tcactttgtt gcccaggcat gcaattgtat gatcttaact cactgcaacc 84900
tccacctcca gagttcaagc aattcttctg cctcagcctc ccgagtagct gggattgcaa 84960
atgtccatca ccaagcttgc ctaatttta tattttagt agagatggag tttcactatg 85020
ttggccatgc tggtctcgaa ctcctgacct caggtgatcc acccacctgg gactcccaaa 85080
gagctgggat tacaggtgtg agccaccatg cccagcccat aaaattccat tctaaccatt 85140
ttaagtgtac cattcaatga cattaagtac attcacattg ttgtgcaact gtcaccacca 85200
cccattttca gaaccttttt atctttccaa actttccaaa ctctgtattc cattaaacaa 85260
taatttcttg ctttctactc acccagccac taataacctc tgctcaacca tctgtctta 85320
gttttcgact attctaaata ccttatataa gtagaatcat actacatttt cttttgtga 85380
ctagattatt tcatttaaca tcatatattc agcatgtcat catatgtatc agaattttct 85440
tccatttaa gcctgaatat tattccattg tatgtataca gcacctttg tttatccatt 85500
cacccactga tggacaagac ctgggttgct tccaccttt ggatattgtg attaatgctg 85560
ctatgaacat gggtttacaa ataactgcac aagtccctgc ttttacctct ttaggtgtat 85620
aaccagaaat gaaattgttt gatcatagcg aagtctatat ttaattttgt ctggaacagt 85680
aatgccattt tgaacagcag ctgtagcttt tccatgtttc ttttgcttga ggcttattga 85740
```

```
cttttttgtt catgtgggtt tacaattttt ataaaaaatt ttggccatca aatctttaat 85800
tttaaaaaat ttctccagtc ttgggtagct cacatgcaca cactgatcag tgctcaactg 85860
aatacaccag ggggctctgc aaatatgtgg gttatctctt tgttaattct ttcctgtctg 85920
ccgggattcg gtcctgtgaa atagttgtct tgttccctgc aggtggccgg acacatctcc 85980
tcaactctgc aagattgctg ggccctacct gagttcttcc ttccttcacc acagtctgca 86040
aactttctcc aggcagtaaa tcagagcaat cataggctt ttctgtctct gagagatcac 86100
agcccttgt tgcttaatgt tcaatgtctt acaaactata gtttcatata ttttgtcttt 86160
gtagttgttg aggcaggaga gtaaatctgg tccttgttag gtcatcttgg tttaagtgga 86220
agtgcatcct aaaaaactct tatccctaga catgaaaaga tgacaaaatg accaatgaga 86280
tcacctggat ttcatccatg cttctccaat ctcccatctc ccattagcta gcatctctat 86340
ttttccttgg tacttaggat taaccactcc aagtagaact acaacgatct agctcatttc 86400
cctgtaataa agtaccatga aatgactcag aggaaaattc catttccaaa tcagtaaaag 86460
cattttgtat ttgattttaa ggattccttc attggtatct aaaacactct acaagcagtg 86520
ctctgagtta taggaatgag aagcaaaact cttgaatgtg atttcattgc atgtggttgt 86580
gaaatttatc tcttgggttt tagatccatg tattctgacc aagaagtacc acttaatttt 86640
agacccattt ggaggaatat catatattgg tcatttattc aagatatatg cagcattata 86700
caggacatct caactttgca aggtgttgtt agttgatctt taactgagtc ctcaaataac 86760
ttctccaact tttcataaga gtctctgttc aggatgatga catggtatgt gatagctcta 86820
gtgaacccct ggggagccca tctattactc aattttctt gatagcaatc agtgtttctg 86880
gaaaacatag atgacctgtg atattagtaa atccatgaat gataacatgg agagagagac 86940
aaataaagat aatcaatccc aggataagga tattaagcaa gaacaaattg ctcttcttc 87000
attgtgagtg gaattcaata caataagcct cctactaggt agctgatatg ctgatatctg 87060
tgctcattct gagagtcctt tcaaatatct gttctccgaa acttttcatc accaacctcc 87120
aattttcttc tttctagcca aaccattaat cagtcttcat aaatctattc agactcatct 87180
ctgaggctat atggatgagg ggtgttttca aaactctgcc ctctgaaaga gttttttcttc 87240
tatatgtttg tggtggtttg aatgtttttt tcacctccaa aactcacgtt gaaacttaat 87300
ccctagtgca acagtgttgg gaggtgggac taatgggagg tgtttagatc atgaggactc 87360
cattttaatg aatgaattaa tgcagctata gaaaaaactt ataggagtgg cttccctctc 87420
ttctgttctt cgacaatgtg aagacacaat attccttcac tctagagagt agcaagggaa 87480
cacaatcttg gaaccagaga cctaatctac tggcatcttg atcgtggaca cctcagactc 87540
cagaactgtg agggaataaa tttttgtcct ttataaatta cccagtttca ggtattctgt 87600
tataatagca caaaacaaac taagataatg ctctatcaga gaaaatggag cttatgaaat 87660
tataaagtta ttgcaaacag ttttattcaa ttcaagtcaa ttaatcttta ttgagttcct 87720
actgtatgca tggaacttca ggctggtgca tgtatatttt gtaggatctt actgtattat 87780
tttctcctta gtatttttta gtagggagca atgatgaggg cataggtagt ttgagagagt 87840
agtgagagag tatcaggaat aggcataagg gattgtgagt cactcgttca aagaacttgt 87900
ttacgacatg agaattatca aatgcctggt ttgacatata acactttgac ctgatgatgg 87960
attaccatgg agtattccaa atttcaaagc tgtgtggtat gatagcacta gtttataatg 88020
tgctctttaa gttgtatgct caattatggc tttacagtta gatgtttatt attcaccaag 88080
gcgtagtaga aagctaagag ccacttagtg aaaggacaat agcagaaaaa ggcatacttt 88140
tgccttaaac tatgatgcct tcgctgtgaa ttttttatt tattttatta ttattattat 88200
tattatttat ccaggaatgc catggattcc attgagtctt ctgacccatt acagattctt 88260
tgagcatgat tggatatgct agatcataaa ggtcaggaag caaaatgacc aatactattt 88320
cctgactcat ctggaaaaga ttcttttgcc cagggtcgtg cttaaagctg gaagcctctc 88380
ggagacatgg gtaaatgatt catggcagtg tactcaaatg tagcaaacac tgcctccaaa 88440
agcagaaggg actcacttgg tgttagaact tgctgttagg agtagcggaa gaaatggagg 88500
gatatcccgg caggtgccag gccactggac tccctgaaat ttttctgaaa tattgttccc 88560
tgtattttca tggtatttat ctccctctgg catatatata tatatatata tgtatatata 88620
tatatatatt ttttttttt tttttttttt ttttgagata gagtctcgct gtatcgctta 88680
ggctggagtg cagtagagtg atctctgctc actgcgacct ccttcccccct gggctcaatc 88740
gattcttgtg cctcagcctc actagtacct gggactacag acgtgcacca ccacacccgg 88800
ctaattttg tattttctgt agagacgggg tttctccatg ttggccagcc tcgtctccat 88860
ctcctggcct caagtgctcg gccgcccttg aactcccaaa gtgctgggat tagaggtgtg 88920
agccacggtg cccaacctgt atttcaatga tatttaaagt agttgcttct tgcttttcaa 88980
accccgtttg tatattaccg gcaatgaagt aggaatgcta atatggttct tgtttgaaag 89040
tcggctcact catgtaagga aggaattgta gcttcaatga aaagataaat aatttcatca 89100
gatacgtgtg gtatgtgtgg gagccggttt tgaatacaca gagaagttta gggggtgttt 89160
gaaatgctga ggttcttgga gtcctttgca tattccagta agttcacatt cttggaatta 89220
ttttcctttt ttttttttt taatccagat catatgttta acctaagtta ccaggaggat 89280
```

-84-

```
ctataaattc aattaggggc cacctggatc taaatttgaa ttcaattttt aattaccctg 89340
gggcatagga gatactgtta ggaccatgat agaaaaatgc taaacttttg tctgtctcaa 89400
gaagagaatt taaggatttg agctcgctgt tccctttgct tacacttatt tagacaaact 89460
ctaggccttg acttttacc cgtcttcctg ttctttggaa aattcaccat gacactctaa 89520
aacattgtct ttaaagagca tactatttta agtgccaaaa aatctctaat ttgatttgct 89580
attttgccac cttgtgtact gtaaatctgc agggtctcat gcctggtttt tactgccttc 89640
aacctccaat tacttagata ataagtctca gaatccccac attctcctga gatgctattg 89700
ccaacaatcc aggccttatt cacactttct gtatgactta aactcctcaa ttgaaaacaa 89760
caaaaaatga ctttagataa cttaggtgta aataaacttg tcggaaagtt actcttagct 89820
tacaaaattg acagtgaggt tgaagaacca agctttataa aagggacaag caaaaaagga 89880
agctttaggc attagaacca tctggctatt ccttctatgc tataacgcat agccatagcc 89940
acacattgtg accatctgtg gactcagcca ccagaaatct aatctaacaa caaacagcta 90000
cttggaaggc tgaggtagga gggtcaccca ggcctcagga gagtgaggtt gcagtgagcc 90060
gtgattgtgc ctttgcactc cagcctggaa aacagagtga gactcagtct caaaaaaaat 90120
aaatacataa agttcatggc tcttgaacag cttttgctga ttagaaccat tgaactaaaa 90180
gtgcagtatt tagtattgta actcaggcag gtgctaatat aagtggaaaa ttttccttac 90240
taaatcacaa aagggaaatt tcctgctgtt tgctaactct tgggttattt tctgttttag 90300
aagtttggat gatactggca gtgtatttgg gatattaaga ctcaaaggag caggtctgtg 90360
gaatagccca gtttcaggat ggctcccctt gtctctctgc tcatcttgtt ccacgtcaaa 90420
caatgagtgt aagagtggga gaatcattca ttgtagaaaa tagcatgtta aaaaatattc 90480
attgtaaata cataaacatt gtggtggtat tttggaccat ttgatagaat agaaaaataa 90540
ctgcattatg caaaaattat ttttgtaatg aaaattgttg aaatagaatt gatatttcaa 90600
atataatttc ttcaaaagga atactttata tgaaatttaa aacagaactc tagaagggta 90660
aaatatttgt gaattatcta ttttgccaaa gtgcttgaat ttttattgct tttattattt 90720
attttgcttc agtttcttgc cattctccga gagaattcca atgactggtc atttttagat 90780
agaagtgggt tttagcttgt aagggctggt acactgattt tttttttgatt gaataattaa 90840
tatacttgtg gaaatctctg cttagtttag gtaaaactct ggttttctta aaaattataa 90900
aagatttgta aaacctagag attcgagtca tctgagcttt tttcaatgtt taaatacaga 90960
atttagatgt atttaattcc catggccaaa gggtagagtt agaaagtgca atacctttat 91020
aatttttaat atttacagtc tattacttat atattaatta ctaattgata ttaaccacat 91080
gcttttttaaa tatgaagata atattgtgag actaattttt gtttattgtg aatcctaaat 91140
actgtatcaa ggaattttca gattttaaaa attacatcag ctgggcctta cagtgtaatc 91200
agtgttctct agttgatgtt cccattgata tgaaaggtag tatatgttgc atttatcaga 91260
gcgaacctct tttaggttta cttaaatttt tattgttaaa tgcagagaca gattacagtt 91320
cagcatcttc ccatccagaa gcatgataag attcctgttg tgttctagaa ctaactgttg 91380
cacgtaaaat gttgagtgaa aatgcaaata gtttataacc ttttaggatt tttgttttat 91440
gcagaattca tctctctaac ttgtatacct tcttgattcc tttaaaaaat atctaacact 91500
taacacaagt atgaatagaa ctaaactaga aactgaatta atcactaatt taattcaggc 91560
attactaatt aatgtaccta tcagtctatt agggctacgg aaggcacaat accagtcctg 91620
attctaagcc actcttcata ctaattggca aagcatgaca tatctgtggt agagagtgag 91680
aatataattc aaatctaaac aggtgctata gctattcaaa atttaaactt tgatcaatgg 91740
gatcaatatt catgacatat tattaagcaa aaaacacatt tatagtagaa ttcaattttt 91800
attctgtata tattatttat tacagatagg actatatatg ttttatagag aaaggacata 91860
tataaaggac atgcaaatat atataatata cataaaatat tcactgaagt acagtatctt 91920
tggaggttag ccagtaatta gcaccttttc ctaaagttat aagaataaca tgctcaagct 91980
tgttttccca atgtctaaca gttttggata ttgaaactcg tgtatctagg aaaaataaat 92040
taatcaccag ctgtgcagtg aagtgtgtgc cccaatattt ggtgttagca tccaacattc 92100
atgctgcaca ttgcagaaat tggtagaaat gcccttcaga atgctcttgc tactgaaat 92160
gggagaaaga tgaaagagga cagtacagaa ttaagggact atttacccaa ttttcaacgt 92220
ttagctggaa aggaacatgg aatagtctaa aagagtggga tatataactg taatgagttt 92280
gtaagttata ttgttgcaaa atgatgaaca gagtttatt gttttagagg tttcctgttg 92340
atctttgttt ttttttaaaa aaacctgacc tcagtggatt tcacggctgt aggatggtgg 92400
ccactgccac ctacagacca gaagtgtgaa gtggcgtggc tcttttgcag tggagtccct 92460
cagagactcg gcatcaaacg ttctataaaa agcaattttt caagcaaaag ttgaaagaat 92520
ttcaaatgaa atagtaaata ttctagagaa ataaaaaatg aataatcaca ttttccccag 92580
agatcactct ttgacagtat atagcatata tattagaaga ttaacaccta atttatattt 92640
tgagtcagac atacacatct gaccacaaga ctggacccac ctaatatttc ctttattcac 92700
ctcatttttt atgaggtgaa tatgtggagg ggagaattac attttgcaac agaaatttgc 92760
atccacaatg aaatacacac tcacacagac acacatatat atgattgaag ggacaagcag 92820
```

-85-

```
atggtaggta  ggtaggtaga  tagacaagca  gacagaatta  tagatatgaa  aggggggaat  92880
ctatacagac  aaaatgttta  tatagattat  ctcttagtat  tagaattaca  gattatttct  92940
gctactttga  ttcttcttgc  ttcattttat  tttaaaaatt  ctacaatgaa  aatatactcc  93000
ttgtgtaggg  atttttttct  aacttgaagg  cagagctttg  aaaatcaatg  cccgcataac  93060
ataaagcttt  taaagtcttg  ctccaggtag  aaaagaaaat  actaaatctt  caaatattcc  93120
tggcatacat  tattttttaa  tttaaacata  cacttaaaag  cacccaattt  tattattttt  93180
ccaaaagatt  ttagaaaatt  atacacagta  atgcctcatt  ccattgactg  taagagtttc  93240
atttctcata  gtaaccatgt  atactaaaat  ttaatcagta  acagataatc  tattatgtca  93300
tggtattaaa  aggttacata  ggtaaaggtt  aataatcaga  tcgtgaattt  tggctaaaca  93360
tcattcattc  atttaataaa  aacatattga  gtacctacca  tgacaatgat  actagaaata  93420
caaaggtgaa  cacataaata  caaaaacaaa  tataacaaag  aaaaaaaaca  aaaaaagtca  93480
actcaagatt  tctgggtagt  tttgttgacc  attgtgcata  ttttctgtgc  ttcgctgaat  93540
atccaactct  aattagttgt  ctcagaacag  agctaagtag  gactccgtca  cttgccaaga  93600
aacaaacaat  gatactccaa  gatccacaag  agtaaaaatc  actgcaaggt  cccctccctg  93660
ccatttcagg  atttaaaata  tctgtgaaaa  atggagggac  tcttttttgag  tcattgatag  93720
agaaataaca  tagatcctaa  ggtttccttc  aacctcttcc  tgccccaccc  ctgcccctct  93780
gcagaattgg  tcctgcccag  tctctgagct  ggtgagaatg  aagcctggtg  tccactaggc  93840
ccttagctct  gaaagcaggt  gtctggtttg  gggtttgatg  cctaacactg  ttatccattg  93900
cccagggagc  tgcaggcctc  tctataaacc  tataatctgt  gtccatgtgg  ttgagtttct  93960
tgcctggttc  ctggtttatg  tctgaatctt  gtctaatcct  agattttctt  gctctctgct  94020
gatgtggcag  gggtttaaac  accaagcctg  gctcctgctg  ctcttctcca  gtgggttgga  94080
ccctgccctc  tctctctggt  ctctgcctcc  tgcaaaacga  actttcctga  aaccgaaagg  94140
aacccatcca  tcatatatgg  tcagtgtcag  agactgtgcc  ctcaacactt  aaagtttcaa  94200
gacctttgga  aattgatgtc  attgctgtcc  tgccctgggt  gtcacatccc  ccagggattt  94260
ggcattagga  tgactgctcc  ttacctgggg  gcaggcctat  catcaggttg  gtttcctcct  94320
ttccaacttt  gtctattaga  ggcatatccc  actttcccca  cttagccggt  gcctacagac  94380
ttgcccttga  gctcccatct  tcttaggaac  cagggttatt  tgctctccat  tcactttttc  94440
attcccatgg  ctccatcttg  taattttgcc  caatgtgcat  aatgtataaa  gttccatcat  94500
gagacattca  tgagggatat  atcctgaggc  cacctgatgc  ccagcttgct  ttccttcctt  94560
ccttccttcc  ttccttcctt  ccttccttcc  ttccttcctt  ccctccctcc  ttccctccct  94620
cccttccttc  cctccttctt  tttttttttt  ttttgacaga  gtctcgcttt  gtcacccagg  94680
ctggagtgca  gtggcatgat  ctcggctcac  tgcaagctcc  gcctcctgag  ttcaaaccat  94740
tctcatgcct  cagcctccca  agtagctggg  actacaggca  cccgccacca  cgcctggcaa  94800
tttnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  94860
nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnaagagaa  agaaggcaaa  94920
aaggaagaaa  gagaggaaag  aaggaaggga  gggagggagg  aaggaaggaa  ggaaggaaga  94980
aaatctggaa  ctttccttca  gtagatactg  tctcaagttt  gtaactcttg  acccagaaag  95040
aagtttaaca  tgcatagatg  ttgttctgtg  tgcccatccc  accatccgac  ccacccatat  95100
atccagtctt  ataagatgtc  ttcagggacc  tctactgggg  gttccttgac  ttgaagtagc  95160
accacctgga  gggctcatgc  ttgtctggtg  gcactttaat  gtacctccat  ccaggcgcaa  95220
aagtcactag  cattcagctt  ggttagtaag  tcccatccta  gcagtgacac  agggcactca  95280
agcaaatatt  ttaaaaacca  tgttttaggt  gtgatttgcc  catttggtga  tctaaagttt  95340
agagaaatgg  cttttcaag  gtttctccag  ggatcttagt  tattagcatt  gtttttcagtt  95400
aactagaaaa  atctaatatt  atgaactgaa  taggtagccc  cagtatcaac  cagaaaatcc  95460
aaaagatgat  ttcctgtcat  cttggtcacc  tgggttgca   agtggaaaat  catttttttt  95520
tttttttttt  tttgagacag  agtgtcactc  tgtcgcccag  actggagcgc  aatggcacga  95580
tctcggctca  ctgcaacctc  tgcctcctgg  gtttaagtga  ttctcctgcc  ttagcctccc  95640
aagtagcaat  tacaggtgct  caccaccatg  cctggctaat  ttttgtattt  ttgtagagat  95700
ggggtttcac  catgttgggc  aggctggtct  tgaactcctg  acctcaggtg  atttgccagc  95760
ctcagtctct  caaagtgctg  ggattacagg  catgagccac  cacgcctggc  cggatgtgga  95820
aaatcttaac  aggatcagta  aagtcaagtg  cccaggcttc  gtcattcctc  atccctgttg  95880
gtgatctcag  gcatttggtg  cactgcctga  tgcctatctt  cttcaagagt  cttattttgg  95940
ttgaggcatt  ctattttccc  atggccctcc  ctcttgttta  cagtaggcat  attagtgggg  96000
tcccattgcg  gggtgtctta  tatggtttgg  attctgggat  gggaggctgc  ctatgtttaa  96060
tcaaggtctt  cctacttgtg  gaccatgggt  cagttcctgg  gtcagtgcca  ccgccagcaa  96120
ggcagcttat  tgtttcactt  tctggacttg  attctgccac  tgaaaatctt  aaggacaatg  96180
tcaaccagtt  gaaacatcag  catccccagg  gtctcctctg  ttttctgtag  tttcttctga  96240
atatccagag  tgctttggct  aatatagctt  atatttacca  tttttaagtt  ctcaggggcc  96300
tctggatcta  catcagtgta  ttgcctatac  attttaaaaa  tcctttccag  aaattctgaa  96360
```

-86-

```
gttttctctt  taggttttgg  tttcatctcc  tgcattttat  ttagactcct  ttgttttgga  96420
actcccttat  ggagcactgc  taaaaagcaa  ttttggtagt  attcaagtct  cactctgtct  96480
cctgcattta  tatttcagtg  agcgtcaggt  gtggggatgg  ccacggatat  caacagttgc  96540
tattttatgt  tttgttctta  ctgtttaatt  atagccatcc  cagtgggtgt  ggagtggtat  96600
ctcattgttg  gtttcctttt  catctcccta  acatctaatg  tagatcacct  ttcatgtgct  96660
tgcttaccat  ttgtatatct  tcttttggaga aatgtctgtt  caagtccatt  gcccattttt  96720
ggttcaattg  ttaaggtttc  tgtacttaaa  ctggaagagt  tctttatatt  ttctgggtac  96780
aagattctta  tcaaattcat  cacttgccaa  tatttcctgc  aattctgtga  gtggtctttt  96840
cactctcttg  acagtgtcct  ttgatataca  aaagttttta  attttgatga  tgcccaattt  96900
atctgttttt  tttcttttac  tgctagtgtt  ttgtatgaca  tgttaagaaa  ctaatccaaa  96960
tccaaggtca  tacacatttg  cccctatatt  ttttttctaa  gacctatagt  tttagctctc  97020
acatttagtt  gtttcatcat  ttaaggttta  tatagcttgt  ttgattaata  tacaacttca  97080
ctcattcatt  catttattac  taatcttata  tgtctgcatg  tgtaaggaga  tacatcttcc  97140
agttagggga  taattatatt  tgtttcttat  agggaattta  cattattttc  caaattatat  97200
caaataataa  cagcaagtaa  atatttcttt  aaaaattctc  taaaacaata  aaacttgttc  97260
tgaatgctag  cttatagaag  tattgaaatg  atacaatgtg  agaactaagg  agttaaaatt  97320
attagtatta  tatttgcaat  gagttcatta  ttttctgttc  ttttttaaga  atagtgtcac  97380
aattaattag  tatactaata  gaatataaag  tgggtttctg  ggtgtttgcc  taaatatgta  97440
gcaaatgata  ttttaattac  aatttgagtt  gctaatcgtt  gtcaaataaa  attttaataa  97500
aaaaaaaaat  ggggaaaaca  atgtcgttgt  cctaagcagt  cctgcactgc  cctctggtgg  97560
cctttcactt  actatgtctt  ctcattgttg  atttcaagca  ccttctgcct  ttcttgatat  97620
ttttacattt  gactttaatt  tttttcactc  tgatagtatt  ttggagttta  agaatgtcaa  97680
gaaaaaaatt  aaattatccc  ttctgtatta  caagaatctt  aatacacttt  tatatgtaat  97740
tcttttagcc  taccagaatt  cctcattatg  actttgtaat  attttatgga  atacaaattg  97800
tttacttaat  atttcatatt  gataaggaca  ctgtgctcag  tttcctgggt  aagttagtct  97860
gtaaatttcc  ttacagcttt  ttgaagtata  attgatatat  tacaatgcac  atcagccaaa  97920
taaagattac  aatttcacaa  atctgggcac  atgtatatat  ccataaaacc  atcactgcga  97980
ttagggtaat  atacacgtat  acattgcccc  caaaagattt  ttctcattta  tttgtaaaaa  98040
tccattgtta  gcttgatgta  cagataactt  ctatttggtc  cttcacattc  acctttttgac  98100
tggggaggag  gtggtctgta  cagtgaaaaa  attgcttgac  cttgcttcac  tgtacagtta  98160
ggaacccata  ataaaaggga  gatctaaaga  taggtcatta  gccaggagag  agcgttgcca  98220
ggactgccct  ggaggagatg  actatacgct  gaaagcttat  gggaccttgc  aggtccatgc  98280
tggcaaaagc  ctgggcagca  ggagtgggag  tgggtccaag  gcggtggacc  aaggagcaaa  98340
ataaaggtct  tgattggact  gaattcattg  acatgagaga  gcccactatg  gatttgggtt  98400
taaagtattg  gatagaccac  ctgctagtgg  tgttggtact  ctgggcccta  tgatggcttc  98460
cagataatga  ggtcagaatg  ctcgaatgtc  cttgccatac  tgctgaggga  gggaggaagg  98520
agtcagaatg  cataaggaca  ggcatggtgg  gatggagcta  tgatgtgcag  tctgctcagc  98580
catccctaat  cttgcctgct  gggagaaagc  agagctcact  cacttcatca  aagagtttaa  98640
aaagtgcatt  ggcaaaggca  gaggaggcac  cagcatcctc  aaagagatct  gtgcttggcc  98700
atcctctatt  gctgccaatg  acggtagggg  acagtgaaga  gtgacagggt  cagatggctc  98760
aggcatcaga  gacaaggtgc  atgcagtcac  cagtatgcct  tgtgggcagg  atgggaatta  98820
gagaatgacc  cacagggata  catggtgagg  ggtaattgat  caggggtcct  tagaaatgaa  98880
attgatgggc  agcgggatcc  attgtctcta  gcatagttat  gagacataag  ccagtaatga  98940
cctgactctg  agctcctaga  ctgagggaga  gattggagcc  cttcaaggca  gcaatgtcgt  99000
ctcaggtatg  tatcatgtat  ctttttccctc  agcttcccca  aatgtcccca  aaatcaaagg  99060
caattactgc  tgtgaccaca  ctttggaaga  agggagatac  ctacatgcat  tttctggaga  99120
atttcgtcta  catgtttgga  gcagattttg  aatccccaac  atcagaaaag  ctgtgtggcc  99180
cagcaagggc  tttggaagtc  tggggataga  agctgccttg  gcccaaggtt  aagattgttc  99240
agtgggacca  tggcctctgc  ctgtggttac  tcctcagttc  cagaaaggat  gtatttatca  99300
actagtggga  taggaatttt  tagccactgg  cggaatctgc  acactggttt  cctgaaccca  99360
ggaattttttc ttactaggga  agaaaggccc  aagtaaaggt  tcctggaact  accccatccc  99420
tgagagtaaa  ccaaaggcaa  cacgtcaacc  atggaggaga  caggagaggt  gagcagtgtc  99480
atcaaaccct  cgagacaggc  aggttagcaa  ttcccactgt  tgctcatttt  ccttgcttct  99540
ttggatacct  taaaagccag  atgggttatg  gagatgagca  gtagatttcc  acaaatgtaa  99600
tcagatggag  aaggcaacag  gagctgtgac  tctttgtagg  atatctcaac  agaaataatc  99660
catcagttac  accgctgctg  cgggagggcc  ctgagcatgg  cacgagaccc  ctgcccatga  99720
aaccagctgc  tgagaatgaa  gaagtgacac  aggaaaacct  gccagcacca  caggctccac  99780
actaagcagg  aggtcacagt  aactagccca  ccctggagga  atttgaatac  agcccaacta  99840
ctgactagat  ggtctcaact  ccctacacta  ctggcctggc  agaaggtgta  cacccacttc  99900
```

-87-

```
tgaacataaa tcctagttac cccagtctct actgctcttc tctataattt tatgtcaata 99960
aattttgaag tttaaataaa atggacaaat cccttaaaag gaaaaaataa aaacaactca 100020
ttacatcaat ggctagtgaa gttttcatac tcaaagaaaa catcaaagaa tgtcaatatc 100080
ctgtccctct cccatcctag caggataatt tattttttatg attgcaagtg gttcattttt 100140
agataaattt tcacatttt cttcaagcat ccaatttccc actactattt ttgatttcag 100200
catacttcca gttctcatag agaggtgaag gtgctgcttt ctgggttaag gcccaagcaa 100260
cattgctata tgagcaggtg acccatggat gctaccattt cctccaggag agataaatat 100320
tgtggcaggc atagctcctt gtttagataa attattttcc tcttcttcct ggacatcttg 100380
cattgggtgt ggcccgatga ctgatgagtt ctagcgaatg agatgtgagt ggaagtgata 100440
tgtttgcttc taggttgtga cttttgaaatg tggcctgttc catgtactct tcccctgtct 100500
gttggctgaa atggaagaaa cttttgtctc tgaattacac tgaggaagaa aactgcctgt 100560
caagaaaaaa tttacacttg gattatcatg tgaatcagca gtaagtatct attacattag 100620
gacactgaaa tttgtggatc tcctggtttt agtaactagc attcaagtaa ctaatacaga 100680
tgttgggctg cttaatacag aatatcacta atatcaataa tttataaaat aaattatttc 100740
ccaagattaa atcttaacta gatgtggctg agataagttg ttttctccca ctcaccactg 100800
tcttcttcca cattagtaaa atgtctgatt ttatttggga ggatgatggc tcagaacaaa 100860
catggcatga catttcccag ccttcattgt gtgtcatggg tatgatcgtg tgataacatt 100920
ctagccaagt ggctaattct aggatataag cagaagcatc atgtggtagc gactgggatc 100980
cttccttaaa aggtagatgc ttcggccagg cgccgtggct caagcctgta atcccagcac 101040
tatgggaggc caagattggc caatcatgag gtcaagagat cgagactatc ctggccaact 101100
tggtgaaacc ccgtctctac taagaataca aaaaaattag ctgggcgtgt ggcacaagaa 101160
accctgtcac tactaagaat acaaaaaaat tagctgggcg tggtggcaca tggctgtagt 101220
cccagctact caggagcctg aggcaggaga atcgtttgaa cctgggaggt ggaggttgca 101280
gtgagccgag atcgcaccac tgcactccag cctgggcaac agagcgagac tccatctcaa 101340
aaaagaaaa aagaaaaaaa gatagatgct tcatataatg tgccctttc ttcttggtta 101400
ttctctacat tatgctcttt gaaatgcaga tgtgatggct ggagcaatgg ttgccatact 101460
gaatcatgag aatgagtgcc ctagtgatga cagatcagta gggtagaaag aacccgggtt 101520
acaaggattt catggattac ttacattcag acttatatat gagagagaga caaactttc 101580
tgtgtgtaaa tcattcttat tttaaagcct ctgatatgtg tagccacact gaattttaat 101640
tcaaatactt ggtcttgaag gataagtaaa tgtttatcag gcacaaaaac tttggtaaga 101700
cataaaagga gaacaatcta tagttgatta accttactgg ttttaaaaaa tgaaagaaag 101760
aagaaaaaag aaagaactaa gttgtgaatt tacttatctc cctaagaagg acaagctaaa 101820
gaacacatga attattctta gagattccag attacaatac taaaggtcta tagctgtaga 101880
tagtgaaggt gcaagggtgt ccattgatcg agtccattgt tagtttgttg gggcttccag 101940
aacaaagtac cacaaactgg atggcttgaa aaccagaaat ttattgtctc ccagtcggga 102000
ggacagaagg ctgagatcaa gctgtctgca gtgttggttc cttctggggg ctgtgaggga 102060
gatgccactc catgcctctc tcccagcatc tggggggtttc ctggcaatct ttggcattcc 102120
tgggcttgta gctgcatcct ttgaatctct gccttcccgt ccacacggag ttctcccttt 102180
ttgtgtctct gtgtccaaat ttcttctttt gtaaagacac agcttatatt ggattaagag 102240
cccaccctgc tctctctacc ccattatgat cacatcctaa cctaatcttt acatctgcat 102300
ctgcatcaac cctatctcca aataaggtca ctttctgaag tactgggggt taggacttca 102360
acaaatgagt agtggggatg caattcaacc cacagcaaat actaacatta gagtgtacca 102420
ctataaaaac aattcctact tagatttctc cacatggctg aatgtaaagt gaaacagtga 102480
gggcactagc agttttggag gctgaagtta tttgtggaat aatatcacac tcctcttctc 102540
tggggtgaat gccaggagaa catgcaggga ataaaaatca atacctgtct tcaagacagc 102600
ttcagagcca gagggccacc cagatgctgg aacagaggcc cggaattatc accaacacag 102660
agacatagcc aaagtgccag agtgcatgga ggagggaatt atgaactcca ggtgaagacg 102720
ctgagagcag caaacagtgt gaaaaccaaa acttcagcgc catgggcttt tcctcaaagt 102780
gtgacagtgg aaccgaatgc atggagtccg aacacggctg gaaaatccag acctagacag 102840
tcacaatggc ttagtgagga ataccattt aaattgggta ttcaaggaaa tgatctgaca 102900
ggcggtgatg gagtggggag gtggggattt caggagaag gaataacagg agcaaatcca 102960
aggaggattg aaggacgggg caaggctgtt gtgctgattg cctcctgggg cgtctgcaga 103020
tggaaagagt gacagaggag ctgctgggga gccaggggaa gtggcaggggc aggaaagcag 103080
cccttttct gatatttatg ccagcttcag aaagctactg tggggtgagg tcgattcggc 103140
acattgcatc cctattttca aagctaactt aagggcaggt gggacaccat tcaggagtaa 103200
ggatcttcaa agcctttctt tcctttatgg gacttgttag tgtgctctac tgggcactgc 103260
cagcttctcc tcaatgtccc atgagctgag tgtttaaggc caggcaattc caggctctgg 103320
ttcctcaaag tctgaatgta cctagattac taaggtcctt aaaaaataga gatacagggc 103380
caggcatggt ggctcacgcc tgtaatccca gcactttggg aggctgtggg gggcagatca 103440
```

-88-

```
cctgaggtca ggagtttgag accagcctgc ccaacatggc gaaaccctgt ctctactaaa 103500
aatacaaaaa attagcctgg ggtggtggtg cctgtaatcc cagctgctcg ggaggctgag 103560
gcaggagaat cgcttgattc cgggaggcgg aggttgcagc tagccaagat tgtgccactg 103620
cactccagcc tgtgctacaa gagcaaaact ccatctcaaa aacaaaaaac aaaaaaccac 103680
agatacagag gtctgaagtg aagcctgaca gatggtaaaa caatctccag gtggcctcgg 103740
tgctcagcca ggtctaggac tttaattccc ccatggcatt tggagttagc tagcatgttt 103800
gagaaggcaa agggacgtga gcatctgctg taaatttggt tacaaagttg gccaaataag 103860
aaattgctta tatgaattat ggaatcctat agtcataaga tttttaaaat gactactggg 103920
aaactgaaaa tttatagtga aattctctct actgctcatt ttagttccct tcttttctca 103980
aagttaaatt ataactcaat gtaacccatg aaaggaaagg ctgtttgttt cctgtgcaag 104040
tctaagattt tggggaaggg aagagtagaa aaaaaaagat agggaaatca acatttaatt 104100
tatgcctact accatgctag aaactaaaga tatataaatt acttattata aatatcaatt 104160
acaacttcag tgattaattt tagaatctaa ataaaacctg acaaaactta cagtaattaa 104220
aaatgtatca acgaaagaaa cagaacagtc aaaataatct ttagatggac atgcttagag 104280
gatcacatta ctttcaggac ttactagaaa actatagcaa tcgagacagc gtggtattga 104340
cataacaaca gacatataga tcaaagtaac agaatagaat cctgaagtag atccacactt 104400
atccatgaac tatttcctga caaagacaaa gacaatccag tggtggaagg gaaatcacac 104460
cttatgtgct ctttagtgtc ttcttctgca gaacacgatg cttttcaaat tcattaattc 104520
tgtcgcttta tccatggttt gtctttcatt gctgaggagt attctactgg acaaatatac 104580
tacatgttcg tgttgatgga tgtgtgtgct gttaccaatt tggagcagct gtgaataaaa 104640
tggtggtgaa cattctgata aaggtctctt tgcagacatg tgttttgttt ctcctgggta 104700
aatgctgaga gctggaattg ctgaattata ggtcaggaac atgtttactt ttataagaaa 104760
ctgccaaagt gattatgcca tttttaccctc tcactagcaa catgagtggt cttgctttgc 104820
atcctcactg acacttggtc gtgtttgtat ttttaatttt agccctgttc agtattgtgt 104880
gttggcactt tattgtggtc tccatttgtt tctctcgtga ttcattataa tgagtactgt 104940
gtccctgtgg aatggccatc tgcatacttc cctttgtgga aggtctattt aaatcatgtg 105000
tctagttttc tatattgcag acaggatatt ctctaaattc tcctcctaaa aactttataa 105060
tgtaactttc atatttaggt ctatggttca tatcaaatta atgtttatgt atgattagtg 105120
gtagggaggt ttttttgttct aatacagatg atgaaactaa atcctgaaat tgttttacaa 105180
tctttccctt ttttttttttt ttttttttttg agataggggtc ttgctttgtt gtcccagctg 105240
gattgcagtg gtgcagtcat ggttcacagt tcactgcagc ctcaaactac caggctcaag 105300
tgatcatccc gcctcccaag taggtgggac tacaggcgcc tgccaccatg cctggctaat 105360
ttttgtattt tttgtagaac agggtttcac catgttgcct aggctggtct ccaattaatg 105420
ggttcaagcg atcctcctgc cttggcgtcc caaagtgctg ggattacaga catgagcctg 105480
caacagcacc cagcctgtta tataatcttg gtagcctctg ctggaagaag ttatagaaca 105540
tttctgtcac tcaagaaatt tcccttgtgc ctcttcactt tcccacctgt atcagtcaag 105600
ctcttcctcc gacacagaac tagtaagata catatacagc aagcagttgt gagggttcct 105660
gggcaagtct gaaatccaca gggcaggcca caggaggtca ggctggaagt ctgggtagga 105720
gctgacccac aatccagaga ggagatttct tcttcgtcag ggaaacttca attctttta 105780
aagcctttca actgattgga atggcccagc cagattatag aggataatct catttatctg 105840
aagtgaactg tagatgttaa tcacatctac ggaatacctt catggcagca cagtgttcga 105900
ataatcagct gagactagag cctaatcaag ttgacataaa aaccatcact cccttaatcc 105960
ccagaacatc taatgacttc tgcctgttat tggacttcaa ataaatggca tatagaatgt 106020
gtttttctttt gtgtctggtt ttgttctgga aagtgctatt acttgacaaa tttcaaacag 106080
ctgcagagga aggatttact tgaggcgata taacttgaaa tcttgaagct taaaccaata 106140
cactaatgct cttggctgga aaaagggatt agagtgccat aaaagagaaa atgtgcccat 106200
ttgtaaaatt tggaaacata ggtagaaata ggattacaga atgagttcaa aataatacat 106260
ttgataaaaa tgcatagaca aaattataaa aagtatgata cataaatatg tgtatatgat 106320
acataaatat acacatttta cattcagttg cataacttct gagcatatga ctattttaat 106380
aaaaatttta cataaattaa aaatagcatt tatagttctg cctagcttat accagacaga 106440
atgtcaaatc caagactgac tgtccagttc aaaatcagac acgtgctaat cttgctgaga 106500
aagtgtgtca gtcaggatct agccaggaat cagaaacaca cccataattt gaataggaac 106560
aatttaacaa gatgagttac taattggcaa gaggtgatga gctgctaaca gagtaactta 106620
agtgaaagag aactcaagaa cacaggaatt gcagctggag tgtaagttcc accaatcaga 106680
tccatgctca gaagatttca aatcagaagc aagctactta agcaaggacg ctctgcactt 106740
tgctgccaaa ggctgatgca caggagtctg gcttttggaa gcatccaggg tggcaggaac 106800
aagttgctga caccggggtg tcactacaaa tagtgtcagt agaagtaaag tctggagatg 106860
tgacagccat cgtctgcatg agggaaaagc caagagaatc aataaaatgc aggacaagtc 106920
actgttgagc tgcttaacca cgtaccgttg tctatgctga ttctctgggc agtttcatgc 106980
```

-89-

```
tcctggactt  ccctgatcat  tatcatccct  acccatattt  aatctttttt  tatgtgccag  107040
gttttgtttt  gtttacaaaa  aatcatctta  ctagtttttc  caagtaccaa  cttttacctt  107100
tgttaatttt  tcatatagta  catttgcttt  cttataattg  atttctgttc  tttgttatct  107160
agctgcttct  actttcttct  gtttaatttg  ctattccttt  ctagtttctt  gccacagaag  107220
ctttgttaag  tgattttcat  cacttcttcc  agcataggca  tttgaagcaa  taatgttcct  107280
tgtaagcaac  atcccactag  tattactata  ctgtattttc  attaccattc  agttagaatt  107340
attatctaca  ttttactgtg  atgtcttctt  taacacatgg  atcatgtaga  agtatggtgc  107400
ttcatttcca  aacattatga  attttctatt  tctctttctg  ttactgattt  ctagtaggag  107460
tccactttta  gcagagaaca  tagtatgatt  tcagtcttta  caatttgtgg  caacttggtt  107520
tcccctttac  ggagagtaac  agaaaatcaa  gagacacaca  aatatatctg  aaaacgagaa  107580
caaaatgctg  ctgggtggtg  cggggccgag  agcagaaatc  cagaactgct  caccgcagtt  107640
ctccccctgc  atgaaggcct  gaaccccctt  gctgaggaca  ctcaggtggc  tccggtcacc  107700
acctgggcct  tcagaggggc  atctggagcc  gcccacagaa  agggagggg  cgagtggctc  107760
cttcccgggc  tcgcgccctc  taatttggcg  gcgtcttctg  ggaaggaggt  ggctccagag  107820
tgggggtccc  gcgggcgcgc  agggactggg  gaggctccga  gggagcaaga  catttaaacc  107880
cgggcggtgg  ggggcgggc  ggtgtcagac  gcccaacgac  cacctccctc  ccggcccgcg  107940
ccgagcccgg  ccacaccctc  cccgcgacac  ccgcgatcgc  cccccaggac  tggcggcccc  108000
gggccccgct  cccacccacc  cacctacgca  ggggcgtcc  tgctcaggca  attcctcccg  108060
cgcgccccgt  cggggaccgg  gcggggacgg  gagaaggaaa  agggcccctg  gctccgggac  108120
cagggctccg  gagggtgccg  ggcggggagc  ggaacaggga  acgggctggt  ggcggcccca  108180
agcgggaggg  acggaccgac  acgcggcccc  ctggcggcct  tgcgactcgc  cgacctgcgg  108240
aacctcgtcg  ccgccctcac  agccccgcgg  ccaccgccga  cccgggccgg  tccccggggc  108300
gtcgcgggtg  ttaaagggcg  agtctacgcg  gatgtcacgg  tcgccgcggg  caaggaccgc  108360
gaggttgcgg  ccctgctccg  aatcccggct  gcgctggcca  cgctcctcca  cgcgcggggc  108420
ggccgctccg  ccacccgcac  ggcgccccgc  agctgctccg  gctggggatt  cgcggggtgc  108480
agccgcccgg  gccgcaggag  gctgatgtca  gcgttccgcc  gtgaccgcgc  ctgttctcca  108540
gataatttta  aatcattcca  ttttctcctc  tgttaccctt  tataatatgt  cagctctctc  108600
taataatcat  ataattattg  tttggtaatg  acatgacact  tgagatttgc  ttcctctctt  108660
ttgggttggt  ttgtttgttt  tagaattcca  cttttcactc  ttttagttat  gtgtataaat  108720
aaacatttat  tcattcatgt  ccataatgtg  tacatagata  tatataatta  ttttaatttg  108780
attggtggtt  gccctacaga  ttcagtattt  atccttgact  taatactgtc  gcttaaacaa  108840
aagtcccact  tctagtgtag  cttcgagaag  cgatccggaa  tcttcactca  ttgactccgt  108900
ttgtcatcct  acttcccttt  tcacaattat  ttccatgttt  tacctctaca  tgtttccacc  108960
ctgctagcta  ttattataat  tgttattttt  taaaagtaga  tgttaattca  gtgtgtatac  109020
gtatacatag  tatatacaaa  attttgtgct  cctcttcatt  ccttcctaca  tttctgcacc  109080
ctcaactatt  aattaaaaaa  atcttcactt  tgaaaaaatc  cctttaatat  ttctcatatt  109140
gcagatctag  tgatgaattc  tctaggattg  tggaacatag  atttccataa  actgctggtt  109200
agaaaacctg  gccaaaatta  ccaaaaaaat  gagactaaag  gggaacgttt  taggcaatct  109260
aggaaactat  tggataagaa  ttttgaatta  atgggaattt  gaccacttat  cacatcaccc  109320
tggtgtgggc  aacaatattt  tatctgtatg  tacagatgtc  aaacatattg  gtcacagctt  109380
ctcttatgat  aactaaatta  gctttttcta  aggcttgata  tctttaactc  taatataaat  109440
attgatttag  ttagctatgt  tgtttgtaag  gtaattgtaa  cgtagtgcat  ggcttgcagt  109500
gactacacaa  taaatatttg  ctgaatggat  gaccatgaaa  agggtctttt  acaaataaca  109560
atcactaaat  tgtggatcta  aagataaata  taagcatatg  tcatcacttg  tcagtttccc  109620
caaggctgtt  tgaaaagaaa  gcatacttga  tgagcagagc  agccagcagt  caccgcatg  109680
ctgagtaatg  gtgaaataca  cagcatcaaa  ccagatactc  tggtgacact  gcaaaagaga  109740
tctccaagta  caacttcaga  catgcaggtt  tttatcattt  tacattatca  caaaagtcac  109800
actcttctga  ttctgatgaa  aaattatatt  aatattgtga  atgtagatgc  cattataaat  109860
tgcagatcaa  gcctatgcag  acaaacagaa  ataccctcat  cttggtaaag  tcatatctat  109920
ggagaacaca  ttttagattt  agaaactggg  aattatcaaa  gctactcttc  atttgccccc  109980
gaagtatgtt  aaaaggcaag  tgaatcatgt  caagatacct  tttctctcac  taaactaggt  110040
aaattttcag  aattcaaccc  agggacccat  gagcccatga  gatcttcggc  cttcttggtt  110100
ttttttgttt  gtttgttttt  tgtttttta  tggattttgc  tcttgttgcc  cagactggag  110160
tgcaatggcg  ccatatcagc  ccaccacaac  ctccgcctcc  cagatcaagt  gattctcctg  110220
cctcagtctc  cggagtagct  gggactacag  gcatgcacca  ccacgcccnn  nnnnnnnnnn  110280
nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnnn  110340
nnnnnnnnnn  nnnnnnnnnn  nnnnnnnnat  gaggtctcac  ccattgctct  gcttagatga  110400
gagtggcccc  ttgaagcaag  ctctaattga  gccctctga  actgttatat  agaagacctg  110460
tcctatgctc  aaaggatgga  ctgggggacc  tggagggaag  ctgaactaaa  gaattagatg  110520
```

-90-

```
ctgtcaggtg tgttcaatca ttggaagtct ctctcactgc tatacatgag ttcacttcta 110580
gcaggttaat gttgcccaca gatgttcctc tgtaccacct ctgtcctgga gactgggttt 110640
tattaaagtc ctagaagaat gaacatctgg aagatcagct ttgtccttgt tggaccaggc 110700
cttatgaggc gctaatagtg acctgttctt cagtcaaatt gaaaggagtc aagctgtgaa 110760
tccatcatac ccaagttaag ctgatcctag aatagtcatt ggactcatgg caccttgtat 110820
gcagaaacac ctccaggaat ggaaaccaca tggtagaaca ccgtagccaa gatcatccaa 110880
acctcagttg gcagtaggca gtacacacca gatactgact cctctaaatg gaccaataaa 110940
cctggtccga cttcacactg gtgtttaaga gaccacccac ctaaacataa gcaatgaact 111000
gctttcaggt tcttgcttta cttcttggct tacttgcttg ccttctaatt ctccacctac 111060
tcatgactta ctgtgtattg cctgattgct ttctctgcaa acagtgctaa cagatctttc 111120
cttaagtcac caaacatgat tgctttcttt cttttttttt tttgttgttg ttgttgcacc 111180
ttctcattga tcataatctc cagggccctc tctggctgtt tcaggcccct agggtggagt 111240
cttctctgtg tccactccca cctcagccag tgcttgcccc tgttggtagc atgaggctgc 111300
tgcccctcat ggaaggagat ggagtagagg gcctgttgac cagctccctg tagatctcct 111360
gcctcgagtt cagtaaaggc agtgcctgcc tggtagccag tagaaagcac tggagctttg 111420
cctggccatt gttggactgg ttctgctccc tgactgcaca cataaccttg tgtcacagat 111480
gtccaccttg ggaggagagg agatggaagt ctgagggccc aggattgaca tgggggcaga 111540
taggagcctc tccagcactc cctgccatcc ctcatatgag gaagaacatg aaaaggacca 111600
ccagggttac aatcaccacc aacatgctct tgccagagcg ggccttcccc tcaggttccc 111660
tttcccccac actcaggcag agggtttggg tctgtccaag tgggctcaca ggcatggcct 111720
ggattggact ggcttgcttt ggtccaccct gggctacctt tgacctcctg acaagtggcc 111780
agaggagctc ttagaaaatc ttcttttata gcctaaatgg gtgggcagag gtggaagatt 111840
gtggagactt ttgagcaaaa ggcatgttcc taaacaggga cagaattgaa cctctgtaaa 111900
tgaaagaagt agaatgcttt cacctcacca tattgtcccc agggatactt tgacctccat 111960
agtgaatatt actggaggtc aaaataaaac tggtagtcgt gaaagttgca catggtaaaa 112020
attaccattg acaaaaaatt ggtgggagat aaatactttt aaaaatattt gatatgcatt 112080
atttgaccaa aagtgcttaa caagatagaa ataataacac cttgggacaa cttaaaaggc 112140
agaatctata gtcagcaaat catgatgtgt aagagaagtc aagttattta tataaaacat 112200
aattgatctt catacagaca ttttcagtaa attccaaata aactgaatca aaaaattgta 112260
atgaacaaat tataactggt ttactgtgct gtattagtcc attttcacac tgctgataaa 112320
gacatacaca agactgggca atttacaaaa gaaagaggtt taatggactc atagttgcac 112380
atggctgggg aggcctcaca atcatggtgg aaggcaaaga agagcaagtt acatcttaca 112440
tggatggagg caggcaaaga aagagcttgt gcaataaaac ttctttttat gaaaccatca 112500
ggtctcatga gacttattca cttttcacaag aaccgcacga gaaagacctg cccccatgat 112560
tcaattacct cccaccgggt tcctcccaca acacatggga attcaagatg agattttggt 112620
ggggacacag ccaaaccata tcgttccatc cccggcccct cgcaaatatc atgtcctcac 112680
atttcaaaac caatcgtgac ttcccaatag tccccaaagt cttaactcat ttcagcatta 112740
attcaaaagt ccacagtcca aagtctcatc tgagacaaga caagtccttt ctgcctatgg 112800
gtctgtaaaa tcaaaagcaa gttagttact tcctagatac aatgggtgta taggtattgg 112860
gtaaatacag ccattccaaa tcggagaaat tggccaaaac aaaggggcta caggcccct 112920
gcaagtctga aatccagtgg ggcagtcaaa tcttaaagtt ccaaaaaaat gatctccttt 112980
gactccatgt ctcacatcca ggttatgctg atgcaagagg tggttcccat ggtcttgagc 113040
agctctgccc ctgtggcttt gcaggtaca gcctccctcc cagctgcttt catgggctgg 113100
cattgagtgt ctatggcttt tccaggtgca tggtgcaagc tatcagtgga tctactattc 113160
tggggctgga ggacagtggc cttcttttca cagctccact aggcagtgcc ccagtaggga 113220
ctctgtgtgg gggctccaaa cccatatttc ccttctgcac tgccctagca gaggttctct 113280
atgaggaccc tgcccctgtg gcaaacttct tcctagagat ccaggcattt ccatatatcc 113340
tctgaaatct aggcggaggt tcccaaacct caattcttcc ttctgtgcgc tggaagctca 113400
acatcacgtg gaagctgcca agacttggca cttgcacctt ctagagccac agcccgattt 113460
ataccttgga ccctttttagc tatggctaga gcagctggat gcagagcacc aagtccctag 113520
gctgcacaca acaggggac cctggggcct gcctacaaaa ccattttatc ctcccaagcc 113580
tctgggcctg tgatggaagg gtctgctgcc aaggtctgtg acatgccctg gagacgttta 113640
ccccattgtc ttggtgatta acattcaact cctcattact tatgcaaatt cctgcagcct 113700
gcttgaattt ctcctcagaa aatgagcttt tctttctat catattgtga ggctgcaaat 113760
tttccaaaat tttatgctct attttccttt taaaactgaa tgccttaaac agcacccaag 113820
tcacctcttg aatgctttgc tgcttagaaa tttcttctgc cagataccct aaaccatctc 113880
tctcaagttc aaagttccac aaatctctag ggtggggaa aaatgctgcc agtctctttg 113940
ctaaaacata acaagagtaa cctttgctcc agttcccaac aagttcctca tctccatctg 114000
agaccacctc agcctagatt tcattgtcca tatcattatc agcattttgg gcaaagccat 114060
```

-91-

```
ttaataaggc tctagggagt tccaaacttt cccacatttt cctgccttct tctgagccct 114120
ccaaactgtt ccaacctctg tccgttaccc agttccaaag tcacttccac atttttgggt 114180
atcttttcag cagtgcacca ctctactgat actgattacg gtattagtct gttttcacga 114240
tgctggtaaa gacatacatg agaatgggca atttacaaaa gaaagaggtt tgatggactt 114300
acagttccac atggctgggg aggcctcaca atcatggtgc aatgcaagga agagcaagtc 114360
acatctttcg tggatggcgg taggcaaaga gagagcttgt gcaagggaac tccaccttat 114420
aataccatca gatctcatga gacttattca ctgtcacaag aacagcatgg gaaagacctg 114480
cccccatgat ccaattacct cctaccaggt ccctcccata acacatggga atttaagatg 114540
agatttgggt ggggacacag gaaaccatat catgtgctat atttaaaaag tattaaataa 114600
ttaaaagtac tattgaagtt tactctcaaa gttgctcctc aactttttaaa atattggtat 114660
aattctgacg tcaacgttta tgaagcagag atttaaaata ttatgaggga cggaagttct 114720
atgaggtaaa gtggctgggt cagaatagca gggtcaatgg aagggcagca ttggcaaggt 114780
ctgactgact tctgtcattt taaatgtgac acagagatga ctatgtaagt tatcctgtga 114840
tcgaatttgt aagcagctgt attaatgagg ttacattgaa taaacaattt cagtggcata 114900
acactgtatt ttgcacccc ctggcatggc tagatgggtg cccaggttgg agaggcagct 114960
ttcctccctg tggtcatcca ggaacccaga gtgtttcctt cttgtgcctt caccattcct 115020
gtgaatggtg atcatgcaaa ttgggtcatt cttgtcatac ccagctaaaa cagagtccag 115080
agaccagggg gaaaaagcac tcggggaata taacattgtt ttgagaatgt aattctcggc 115140
aagcccagct gctgaaactg cctgctgtaa cctgaaacca gttttctatt agtttctaca 115200
atgacctgcc aggaagctaa gactagtttt acccaccatc accactcacc aattagagga 115260
tgccaattcc ctaaaatttt acttatgcca atgaccttat tttcaaaaca aaacataaca 115320
tagctctttt tataaaacct ccaaccttct ctttgttctt ggacattctg aagagcactt 115380
ggactatgtg tattccctga actgcaattt gtgctttccc aaataaaaca tttaaattta 115440
cccattcacc aatatatttt attttgactt tgatatctgg ggcctcatcc ctacttgcat 115500
gcatcagcag aagaagaaag agcacgaaga aatgtccaca ggaggatttt atgggcctgg 115560
actggcagtg gctcacatcg atcccactcc tcttccattg gcaagaactg gccatgtgac 115620
cacgcataac acaagagagc ctgggaaatg tagtccaact gtgtgtgcgg agaaggggag 115680
aatggatttt gatggacgac tagagttctc tgcaacagta aacaacgtgt ttggatttat 115740
tgtgtttctc caatttttat ggagtgtctg ctgtattctg agcactgtgc taagagctgg 115800
acagagagct aatttagcag caccttgcgc tagaagaagc tctcagtata taaagggaga 115860
taagacatgg tatggagtgc ctgctatcct aagagacaga aggataaagt gaaagtccta 115920
gaagtcccat gaattattct agaaggggaa gctgcctgca gaagatggtg attgaggtcc 115980
acttttagaa ataaagcaga tttggttggt ggagggagac agcagcagaa gctatggaag 116040
catgtaattt gtgtacaaga tgtattaagg aacactatgc agcaattaaa tcagattttc 116100
aaaaacaatt gaatagcatg gattagggct catatcaagt gagaaaagta actggggatg 116160
taagttgatc ccatgtttgg aaaaactgtg tgtctaagat tagatgaaag tatacagaca 116220
tgttgggtaa tagttcttaa attttataaa atatactgtt taagtaatca gaaggattcc 116280
atcaatgggc tttggtttga tatactattt tctgtaagcc agatatacat agttgtgatg 116340
ttggccagtc attctcaaca tttcctaaca ctgctgcccc tttttccccga cccctaccc 116400
tgctatgaga cggtgacctg gtctctattt tctgccctgg aatctatgtg ctcaataaat 116460
actccctgaa ataccacact tggaaagaga cctccttttt acaatgtgaa atgaagaaac 116520
aatgacttcc tctcgaagtt atcttccaaa cattgattct tacaaaattg ggatatgatc 116580
taactgcaag cccatagcaa tgtctaaatt tgaatgttgt cttttgctga cgccaaatgc 116640
agagccctgc agcatttgtc atgcagggct ctcatgtgac caccagaggg cagtgcatga 116700
ctgctatgac attgtttact tcaaaatgtt tgcaagtgag ccttcttgag aaaataaatg 116760
ttttataaac ttcgagaatt tgttttttt tttaaaataa ggaattattt ctttaacagc 116820
aaataaagtt tagaaaattt agttctgtac cttagttcaa actatctgta ttttacagtc 116880
tataaggctc attgtcagca ccacaaagct gtgtaaccaa tcttcttacc catcctgtgt 116940
gacaggtttt gtttgttctt ttttaaaggt aaaagtctaa gaaaatgctt cataaatcct 117000
actttcagac cttgaagtgg aatacttcta gttacactat gtaaaaactt gggttgtacc 117060
ttgttatttt cattgaacag atagcaaaag aaaaaaaaag gagaaagtaa aaatgaaaag 117120
aactgttcta catcctgaat ttaggctgtc agtctatata ttgaatttat aacactgaag 117180
catcagaagc aacctaataa tgtcctgctc cgtccttcct ttccatttat aattttttaaa 117240
aaggcaacca aaaaaatgtt tcattcattc ttcaaaataa gttgcaaaga aggatcgcaa 117300
cagtgaatgt cctcattcac acttccaata acatctcaat gttgctcacc ataatctgcc 117360
atgaaccgat tcaggagcca cccagagctt tattcacggc ttccgaatgt accatgtttc 117420
ctataccaga agcctgccca atgtcagcgt ctctctgttc agaggccata acaacttttg 117480
tcacggctgg cctggatttta aagcaacatt ccagattcca gaactagttt tattgtctca 117540
gctgtttct tcctcttcag gatttatcaa ttttagaaaa aagggtgtat atttgtcttg 117600
```

-92-

```
cctctttctt tctttctttc tttctttctt tctttctttc tttctttctt tctttctttc 117660
tttctttctc ttgcctcttt ctttctttgt ctcacctctt tctctttctt tctttctttc 117720
tttccttcct tccttccttc cctccctccc gttcttcctt ccctctctct ttctttccct 117780
cttttccttc cttccttctt tctttctttc ctttctttct tctttctttc tcctttcttt 117840
cttttctttct ttcttttctt tctctcgcct ctttctttct ttgtcttgcc tctttctctt 117900
tctttctttc tttccttcct tccttccctc cctccctccc ttccttccct ctctcgttct 117960
ttccctcttt tccttccttc ctttctttct ttcctcttac tctctttctt tctttccttc 118020
cttccttcct tccttccctc cctccctccc tcccttcctt ccttccctct ctctttcttt 118080
ccctctttcc ctctttttcct tccttccttc tttctttctt tctttctttc tttctttctt 118140
tctttctttc cttccttcct tccttccttc cttccttcct tccttccttc cttccttcct 118200
ttctttctat ctttctttct ttctttcttt ctttctttct ttctttcttt ctttcctctt 118260
tcctctttct ttcttccttc cttccttccg tccttccttc cttccttcct tccttccttc 118320
tttctttgct cactacaacc tctgcctcct gggctcaaga ggtcttccca cctcagcctc 118380
ccgagtagct gggaccacaa gcacatgcca cccatcggct aattttttgta tttttagtag 118440
agacagggtt tcgccatgtt gcccaggctg gtctcaagtt cctgggccca ggcaatccgc 118500
ccgcctcggc ctctcaaagt gctgtgatta caggcatgag ccagagcacc tggccttgtc 118560
ttgccgttgt caaagaatct gtgcatatca catttttaaga ccacatttcc caagctagaa 118620
cttttcagtaa gcttgttgtt caaagtacaa aattcttatc tgtttttaaaa aaatttaatt 118680
gaagattagt acctctgctt tcctctgaca gaaggacagg attcattata ccatggttga 118740
aaactaaact tcatgtatac gaatggctag agaggtctga agttttatag agcccttaac 118800
atcactcaag cgcacttggc attggccaga ccacagtggg aaacatgtca gcaaattgag 118860
gaaaagagac tttcccaagt acacgatggt catccaggct ccatgtcact cacataaaaa 118920
tctgagcaac atgtaatccc atcccccaccc tcacaccaaa gccttgcacc tcacagaata 118980
tcttaatgtt ccccattact aatgacagct gctcccgttt ctgctgctgt ggcaggagt 119040
cttggcactg tcttagcagg gcttggaata tgatcagtta ctgtgtttga atgcacaagt 119100
ctgactcctt catcccaagt gtcattattt ggagaaggac acggagtgta acttcttctg 119160
tgcttttcac ccaccatagc taagtaccat gtttcttcaa agagtgaatc tcttgggccc 119220
cggggaacag agttgaccaa gtgatgggtg tcctctctga gcttcatgtt ttcaacaaag 119280
acatctggta ccacacaagt tcttgagcta caccttgatt taagatccca taagcttgct 119340
gttatttat caacagcaga ccatggtgtg gcatctggtg gaactttaag agagtacagg 119400
gtggcggctg aaccagaacc gtacgagaac actccagtct cttccctgat cattgctgag 119460
gtgagtactg cgctgggaca gttgcgggga accatatact gacgatgtgt acgtatttcc 119520
attttcactg gatacagcaa agatgccttt gttttctgat gggagagttc ggaactatcc 119580
ttcataaatg ccatctccac atctgtatca aaatagatgt cttctaattt aacattccca 119640
aaggcttcca ggacattcta aacactattt ttatctctgt tctgatcatt aaggaagtca 119700
ttccgcaaca tccgagctag agataaactc accagtttac aatatggtga gtgaaggatc 119760
aagaagccaa aattattcaa ggtaaaatct ttatcatttc cgtctttctg ccactgggca 119820
cggatcgttt tgcagtcgac agaatagcag tgatctaatg cactgaagca gcactgtgtg 119880
gagggttttc catctactat aggacattca gagagcatat caggctcata aaagccatag 119940
gcacgttgca tatgtgtccc acgaagccct cgttcaaaaa ttaaagttgc atttggctca 120000
attagcagag ctactgctct gactctacct gtcagtctaa cttttcctgt gggatataca 120060
gcaatatctc ctacaaactc cagggcaaac tgtccatccc aggagctgga ctcaatccag 120120
ttaacagcac tgaagacagc agctggggct ccatagcatg catgagttgt gtcggttcct 120180
tctatatcta tatccccaga ctcctcaaac agctgcatca aattagtctt cactgacttt 120240
gatttgtcct tgattgtctc tgttccaact tccagtcggc cagtgcaatc gtaggaaaga 120300
ttttttctct ccataagatt ctgaaccaca ggcatgcaaa gagagttgat ctcttctcca 120360
tgtgtgcagg agcccatctt ggcctggccc aagccaatgg tatactttcc agcatctata 120420
tcaacatact tttccaactt tgaaaatatt tccttggcat gcctcaggtc tgatatccat 120480
tcaccgtgtc caatcccagg ctagtcttgg acctcctgac ttcgtgttcg gtttggtgcc 120540
ggaactggat ctggtggctc tgttgccacc tctgctgccc tcccagcacc gctcagttgc 120600
acgccctgca gcccaggcc atgggcccaa tcctagagaa tttgtaaaga aatatttatt 120660
tgctttttatt tttcaattta aatgggaagc cagtgaaaat tccacacaag aaacaaatat 120720
aagacaatcc agttactggg agatacacct tgtgatgcgt gcaaacttgt aaaattatttt 120780
gtccatcctc aggatttgca tccagattca tctctccttc ctccatctat aaacatctgt 120840
ctatataaaa tatctttga cgattagatg taatgcacta aagatatctg gtaatcatgt 120900
tacttctttg tgataggaat ctttttggtag caagtgatct gcttatggga tggtgagaat 120960
ataatggaaa caagggagga cagaatacag gcgatcagca ggaggtctca gccacaagtg 121020
tgagaaagtg gacatctcat ggttagcata gccaaagtct agtatacatt gtctgctatc 121080
cccaaagaac tcagtgtctg tgtgcgaact ttgcaaaaat ccttccttct ttccttccta 121140
```

-93-

```
ccttccttcc ttcctccctc cttttctctt tctttctttc tttctttctt tctttctttc 121200
tttctttctt tctttctttc tttctttctt tctttcttct ttccttcctt ctttctttcc 121260
ttctttccta ccttccttcc ttcctcctc cctccctcct tttctttctt tctttgtttt 121320
tcttcttt cttcttc ttccttcctt cttcttct tttcttct tttccttct 121380
ctttcctttc cttctctctt tctctctttc tttcctttct ttcttgacag agtctcactc 121440
tgttgcccag gctggagtgc agtggcacga tcccagctca ctgcaacctc tgccttgtgg 121500
gttcaagtga ttctcctgcc tcagcctccc gagtagcttg tattacaagc atgtgccacc 121560
atgccaggct aatttttgca tttttagtag agacggggtt ttaccatgtt ggccaggctg 121620
gtcgtgaact cttaacctca ggtgatccac ctgcctcagc ctccccaaaa atcctttatt 121680
tcttaaaaga ggatcagatc agagtaatga ccagtggtta taataatttt gagggagaga 121740
ttaggtttta ttacaataac ctggtagctg tgctttctac catacttgct ataatcctta 121800
gcccctgca caggacagtg ggcgacctga aagcacagtc tacaccttgg tcccgactat 121860
gtcgcagatt tttagcccag cacctggccg agcagaggtg ccatgtacag ctgaatgaag 121920
gcactttggt tgcaacatct gacaaaaata ctacggtatt tgaaattagg actttcctag 121980
acagcccaga tatgaagtca tcataaacac gcatcttgac aacctaccag atcctttaat 122040
cccgactgcc ttcccactgc aaccaccagc ctggacctac ttggtcccag gtatttccca 122100
gaatcacgct cttgttttgc cttctctgct tacattggcc tccttcattg gcctactctg 122160
tgttacttca ctctgggtct tgggggtcac ctctgacctc ccttggatct cccttttctg 122220
gatctccctt ctctggggag cccattggat ctcccttctc tggctcccct gccatcctct 122280
tgtttctggt tctgcacttg acttggattg cagcattatc ccaactccag ttggaagacg 122340
cccccagcat gctgactctg ggagccctca ctagccaaag ctaccccctc acctcacctc 122400
ttctggcatc ccctcttggc atgggagttc agatgtctac aaatgtgtaa gtaagaaaag 122460
tggtttcatg ccttcttact agaaaataat tcccaacttc tgaaaaatta gtagaaaatt 122520
gtgggtttat ttgtcttgct tcttggaata agaaaacttg atgacataaa atagagactg 122580
caatattctg ataccggtaa caaagagtaa tttaaatact gcggccagat atattccctt 122640
cttttatgct catgacactg tcatttaaaa acatggatct taaggtaaaa tttactctgc 122700
tatctaagga tttctagaat aagaaagttt tttgctttttt tgtaaaaatt ccttttaaca 122760
caaatggaac tttagaaatt aactactcac attgttgctt ttcataaatg aggcagccag 122820
aacccagaga aatggtgtgt cttgcccagt gtcaccaatc tctgccttga gagagtggac 122880
agggtcttac tccacttact atctccagat tccaggcccg tgctttaaaa atagtaggag 122940
ctcaaaaaat ctaaacagaa ctgaaccata ttgagcaatt tgatactgtc ttgagatttt 123000
cttactactg gttgtaggtt cacctttgtt tctggtaaat catgttaaaa taacatttct 123060
tgagcagagt aacttgaaat aaacaagcct cctttctga cactgagcag ggaggattat 123120
gctgacaatt ctgactacct ttctatatcc tctctgagaa gcagcactct aaaaccatct 123180
gatttgggct cagagcagcc cagattgtaa tattatttgc cagttaattg ggggcaggaa 123240
gccagctctg ctgcccccca cacacaccag cagagacttc agaagacctt caaccactgc 123300
aggaatggct ctgatggtct ctgaggctct ctttcctctt ggtcagctcc aggtatgaga 123360
tttatacacg ttggagaggt tcatgttgct gttagaaggt aggtctttca gaatattaga 123420
ttttgtggaa ctaaagttta acaacaggat tttacttata aaacaataac tatgtgaatg 123480
cataaagctt ggtgtggcta taaatcagtg gtgttttatt cattaaacaa tttatttaat 123540
gataagatgg cctaaatata tattttttcag agaagtgagc atgcctggtg atttacaatg 123600
cacagaaaga cctgatcttc tggaaaagga acagaaataa attatgtcaa tatatcatga 123660
aatgcagaat tgcagaattc taaaactgct cttatctact tttgctgcag taactgaaaa 123720
aatcatggag ttaatatgga tctttcacaa ttttttgaca aataaaaatt gtatatattt 123780
aatatgtgaa gtctgatgct ttgatatata tatagtgaaa tgattatcat aattaagctg 123840
attaacatat ccatcgcctt atatagttac ttggtgtgtg tgtgtgtgtg tgcgtgcgtg 123900
tgtgtgtgtt aacatttaac attattactc tctcagcaaa tgtgaagtac tattaagcat 123960
agttaccata actatacagt attagtatta ttaagtatag ttactgtact gtgtatttga 124020
tccccaaaac ttattcatct tacacttgaa agttttacc ctttggctaa atcccccaat 124080
ttcccattcc tcagccctc gcaacctccc ttctactctc tgtttctttg agttcaacgt 124140
ctttggattc catgtatcag tgagagtatg cagtatttgt ctttctggtc ttatttaatt 124200
tagcataatg tcttttatgt tcatccacgc tgccacaaat agctggattc cttttttta 124260
ataagactga ataacattat gtatatatct catcaatggt atagcatgtg tcagtacctc 124320
attacttttt aaatgctgaa taatatttca tttatagata tactacgttt gtttatttgt 124380
tcatcggtag gtagatattt ggattgattc tggggttttt ggctatcatg aataatacct 124440
ctttgaacat ctatgtaaaa gttttgacat atacgttagc ttttatttct tttgggtatt 124500
tctaggggta gaattgccag catcagccca cccagatgca tcccataagg attccatatt 124560
ttatgccttt gccaatcttg aagtcacgct ttctcgcgcg aaaagaaaag gtgacacttt 124620
ctctcctcct ttacactntc acactctnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnnn 124680
```

-94-

```
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 124740
nnnnnnnaat taaaaaagga aattatgaaa acaattccac ttataatagc atcaaacata 124800
ataaaatact taggaattaa tttaaccaag aagatgacag actagtataa tgaaaactat 124860
aaaatactgc tgaaagaaat taatgaagac atgaataaat ggaaccacat cccatgttca 124920
cagattggag gacttaatat tgttaacatg ttaataccac acaaggtgat ctatagatca 124980
atgtattccc tataaaagtt ccaatgacat tgtttgcaga aataaaaaaa ccctcatttt 125040
aaaatttata tgcaatctca agagacctgg aatagcaaaa acaatcttga aaaataacaa 125100
agctggaaga ctgacacttt cttattccaa aacttactgc aaagccacag taatcaaaac 125160
agtgttgtac tgtcttaaag acagacatag agaccaatag aataaactag agagatcaga 125220
aataaatcct cacatacatg gtaaaatcat ttatgacaag ggtgccaaga ccattctatg 125280
gagaaaggac agtcttttca acaaatggtg gtgggaaaat tatacatcca tatgcaaaag 125340
aatgaagctg aacccttacc taacaccata ttcaaaaatt acctcaaaat gtaacaaaga 125400
cctaaatgta agacatgaaa ctagaaaact cttagacaaa aacataagca aatgattcag 125460
aacattggat ttggtagtga tttttaaata tgacactaaa gacacaagaa attaaaaaag 125520
accataaaaa atttttaaaa atgtgcacca atggatgacc tttcgactta attaaaaaat 125580
ttgaaagcac aaggaattac tttttaattg ccatgattta aaagtagaca tatttaagtt 125640
ttaactttgc atttaatttt atatgatgaa atttataggt acatgagaga agagagaaag 125700
tgttatcttt tttgcataag aatgtaattt cagaaatgta atgatgcaaa tttttgaatc 125760
cttatgagat gtatctggat gggctaaagt aggtgtggaa tggctctcct gggagctctg 125820
tcacaaagga agtctcttgt cgaaaattca actttacat tgacagggct ctactgtttt 125880
ggaacacaat ttgaccattc tttaaaatgt taagcatact attaccatat aacacctctg 125940
tattataatt gccctacatc taagggcaat caaactgaaa aatttattcc aatgaaagaa 126000
aaataacatt tggaggctta atgaaaattt ttttggtact aatgcaaaat cagacctagt 126060
acttctaggt gtatagaatt taattgccct gggatatacg acaatttaac tgccatggat 126120
ataggcaat tataacacaa gggtgttaat tgttaattgc cctatatcta agggcaattc 126180
cacccttaga catacacaag aaaaataaaa acagatgttc atatcaaaac ttagacataa 126240
atgttcaaag tagcattatt tataatcacc aaaaagtgaa aataatggaa atgtccatca 126300
acacatgtgt gaataaatag aatgtgccaa tattcataca atggaatact actcagaaac 126360
aaaaaggaag tgctgatcca tgttataata ttgacaaacc ttgaaaacat tatgccaagt 126420
gaaataaatc aatcacaaag actatacact gtataattcc attatggaat atctccagag 126480
aaggtaaatc tagagagtca gaaaataaat tattgtttgc ctagggccag gagtaagagg 126540
ttgggaagta actgataata ggtatgagga ttcttttggg gttgataaaa atgtttcaga 126600
actgattgtg gtgttggttg cataactgtg aatgcactaa agccaatgaa tagcacaatt 126660
taaactggga attacataga atgtaaatta tatttcaata aagttgttaa aatgggggat 126720
ctggcattct gattttttaa aaaatatcta ttttggagat aatatttagt tgttagttgg 126780
tgaaattata cacctagatg tactaggtct gctttcactt tagtagcaaa aaataatttg 126840
cattaagcct ccaaatgctt ttttttgtct tttattagaa taaagaagtt aaaaatctac 126900
cttctgtaaa attaaatcca ttaaattgct tcaggagtca gagttatttg aaaaaatatt 126960
tttatattta taatataata agagaagagg gtcttgctat gttgcgcagg ctgatcttga 127020
actcctaggc tcaagcactc agcctcccaa agtgcaggga gttcaggcat gagccattat 127080
gtctggcctg atgcttatat ttttgattga ggaatagaaa cttagtgtta ggtgaattag 127140
tgcctgcaag gcttgacaag acgcaaagtc aatctgaagg cagcgtgagc tacccaccac 127200
aagctcttgt gtatcacgtg ccccttagag aaaaatccta aaactgctac caagaaaact 127260
tacagatgta cccccaccca tgaaatataa tcacaaaagt ttaatcgtaa attgcaagcc 127320
aattttattc ttaactttat gagacaaaag aaacaaacaa acaaacaaac aaaaaaactt 127380
ctatcagccc gacctggggc tctaggatag aattaagccc taatagatga aggcatctat 127440
ggtctagaat ggttctagtt ttctactatt ttacggagag ccaagactca aattattttc 127500
tgcatttggt gatgcagata actttggtta agaaaggtac taatttgttt gccttttgag 127560
atatgatcct aattttctga atacagctgt tttttcacat gtcatgcaat aaacagtatt 127620
ttcacagggc acacagctaa aaaaagaaca cagtcttctc agttttaaac ccaagaatta 127680
gaaactgtga aaggccacta ttaactccat tttttaaagag actctagcaa aattggataa 127740
tagcaatttt cacaattatc atacaatcct tttggtgatt tgttgatatc ttttattttct 127800
gttcttccag aagatcagat cttttagagca tcatcagaga aaaggtcaaa ttcaccaaca 127860
tgctcatttt tcagaaaaac atatttgttt gagaccatct tactttaaaa ttaagtgttt 127920
aacaaaaaca acaccattaa gttacagcca tatcagtgtg gtttttttgc tccatataat 127980
tattgttttg taaatgaagt cctgtcatta agctttagtt ccacggaaac taatattctg 128040
gaagacctac ctttttaacag cactgggaac ctcttcaacg ttcataaatc tcatacttgg 128100
agctgaccaa gaggaaagag agccgtagaa agcgcctggg ttcagccatt ctggcgatgg 128160
ataaaggtct tctgaagtct ctgctggtgt gtgtgttggg cagcagagct ggcttcctgc 128220
```

```
ctccaattaa ctggtaaata atattacagt ctgggctgtt ctgagcccag ctaagatggt 128280
tttagagtgc tgtttctcag agaggataca gaaagctaat cagaattgtc agcataattc 128340
ctccctgctt agtgtcagga aaggagcctt gtttatttca aattactgtg ctcaataaat 128400
attattttgc catgggtcac cagaaacaaa ggtgaaccta caacgagtag taagaaaatc 128460
tcaagacatt gttaacagtg ttaaataaag ttcagttctt ctaaattaga ttaattgagc 128520
acctactact gtatataaaa agcaccagct tggaatctga agatagcaag aagaataaga 128580
taatgtccat tttgcaagat aggtgaaggg attggtgaca ttaggcaaga cacaaccttt 128640
ctttgggcct tagctgcctc acctgtgaaa ggtgaggatt tgaccacttg ctttctaagg 128700
ttcctttcag gttagaaagc attttgaaaa gcaaacaagg ctgggcatgg tggctcacgc 128760
ttgtaatctc agaactttgg gaggctgaag caggcagatc acctgaggtc aggggtttga 128820
ggcaagcctg gtcaacatgg tgaaaccccg tctctattaa aaatacaaaa attagctggg 128880
catggtagtg catgcctgta atcccagcta ttccagagcc tgaagcagga gaatcacgtg 128940
agccaaggtt gtgccactgc accccagcct gggcaacaag agcgagactc cgtctcaaaa 129000
aaaaagaaaa aaaaagtaaa caacagaatg tccttattcc agccatccct aaaaagcaga 129060
gttagcttta ccttaaattc catattttaa gtgatagtca cacacataaa agagaagcat 129120
ctatatggtc atattgttga aatgattctt tgttgtttgt atcagaattt tgcagattat 129180
attttttgct gccaactttt cttattccac caagcaggat aagccacatt ttttttttt 129240
tttttactgt gaatacactt tatttagtca ttttgtttta gagttgaaac tctgggaatt 129300
caacatttat atccttgcct gtgagcttca tgtagacacc agaaaaagtt tcaacgttgc 129360
gttccacatt gttttgctgc gctttgtcca aatgagcctt tatgagacgg ctgccatcca 129420
gtttcacgtg gattctcttg cccacaattt cacttgggaa gaccaagtcc tcggggattg 129480
agtcatgcat ggctttcagg gtacggctcc tgggatgctt ttgcttattt tttgtacagc 129540
tttttcgggt tggcttaggc agaattctcc tctgagcaat aaagacaaca tgcttccccc 129600
aaacttttc tccaattcac gtactagcca gacttggatt ttctggaaag atttcagttg 129660
aggaaaggga acaaaaatta tgatagcttt cccaccacca ccatcttcag tttccttggc 129720
tgctgtaata ttcagctccc tgaactgaac cttgaggtgt gagttaatct ccagctccag 129780
aagagcctgg gagataccgg acttgaactt gtctggcttc tcgctcttgg gcttcatgat 129840
cctggtgctc gactaaacat ggccttctcc ttgctgagtg ccaccttagg aaaagtgaaa 129900
ccacgtttta aaaccaattt gtcaggaatt cataatcatt ttctagctaa gatagggtga 129960
gacccctttt cttccctata catttttaga tatctaaaac cctgtcccat gtggggatga 130020
tggggtgtac aggggctacc ttggttagtg tgggtccccc agagttagca tgctgggaag 130080
gtttgttacc cggagttgca ggtgactgca gtcaaggctg tgcacagaac caagagcaga 130140
tgatggcaga ttggccagaa aagggagggc caatgggtta ccaaaagcat tatcaggctg 130200
ggtgcggtgg ctcacacctg taatcccagc actttgggag gccgaggcag tggatcacct 130260
gaggtcagga gttcaagacc agcctggcca atatggtgaa accccgtctc tactaataat 130320
acaaaaatta accggacatg gtggcacatg cctgtaatcc caactactcg ggaggctgag 130380
gcaggagagt tactggaacc tgggagtcgg aggttgcagt gagctgagat cacaccactg 130440
tactccagcc tgggcgacag tgcaagactc cgtcccccca ccaaaaaaag ctcaatatca 130500
gaagtgtccc ctgagactta gagtgaataa cacatattag dacaatcatg gagactaagt 130560
aaacagagaa ggcaaagcag gaggctgatt ctggaaaata cctaggacca ggtaggtccg 130620
ggctgggaga tgctgtggga atataatcag gtctaaaggg ctggcaggag agacaggtgt 130680
gtgagcttgg aggactgaga cttggggggac agaagaatgt ggtggaggac cgtgtgtcat 130740
ccttgaacaa agacaaagac cacctgttcg agcctcgaga gcttcatttg gaagctgagg 130800
cagagtcatt gacctgactg tagtgatgtg gcctcatgag tgaactggac cccagtacca 130860
gtgctggcag taaaggaaca agaaaatgtc ctaaggctcc catcaatgac tccggatctc 130920
atgggtgttg ctcctttgcc ctgctaggac ctgagagagc tgatgccttg aagtcattca 130980
acaaaggtgt tctgctcatg gttttttctcc cttaggtgca gggctagcac tggccaccag 131040
ggaggctgtg cccacagtgc tctgctggag caactggagc cagggaggag ccacccaggg 131100
gtcattctgg ccattttctt gccaccaacc agacctcact tcctgttgtg agcattcatc 131160
tccacagtgt gagctggtca gatggaggaa agttgggaca aggggcttga gatcctctca 131220
tttactcatt cagtaactag gtcccaagca cttatcttgt tccagggcta agtatggtct 131280
gggtctctca gtgaatgaat gacatggccc ttgtcctcca ggagctcaca gtctggaggg 131340
gaggaggagg gacggaatca ttaaaataga ggaaagtgc gagcataata ttgaaataga 131400
gcacagtgct acgaagggga gatgaagatc acttcaagag tgggaggtag gtctgaaaag 131460
gcctcactga ggtgaaattt atactgagaa ggataattgg gaccggccct gtgaaagtcc 131520
gagaccagtg tgccagggga aggatcaatg gccaaaaagt ccaggaaaaa gtgagtttgg 131580
ccagagagga ggtagaaaga gggccagcgt ggctggagag agcttgcaag tagaggaggg 131640
gagggaggct aaaggcaggg gtggattctg gatggccctg cattagtaat ctacagctgt 131700
atgaaagcat tatcccaatc ttagaggctt gcaacaaaca cgtagatctt cctgtttctg 131760
```

```
gggcccagga atccagcagg acttatctgg gtgcttctgc catggtatct ctcaggaggc 131820
tggggctgtg gtctcaactg aggctcgagt ggggctggat ccaatgctaa gcccactcat 131880
atagttactg gaaggattca gttaggactg atggcctgag ctcccctctg tccatttccc 131940
tctctatatc ctaggacaca tgagcctctc cataggcag ctcataacac agcagctgat 132000
tccccagagt cagggatctg agagagggag agacagagag aggacaccac agagaaagaa 132060
aaggagaaca gaggagagaa agagcaagat actagtcatg gacattttat aactgaatct 132120
tggaagtgac atctcatccc ttctgctata ttctattggt tagaagtgag tcactaagtc 132180
agtccatact ccaggggagg acatgacaca aggatgtgta caccaggagg tggggaacc 132240
tcttggagcc attgaggtgg ctcctaccac ataggctgag acgtggcact cgggtctgaa 132300
tgtaaacaaa catttaaccg tcacaagcgc tgatgaggat gacaatatca gaatttacta 132360
aatttcagcc ctctaatagt acacacaggg aaatgaggcc aggaggaatg ggacatttca 132420
aagatcacat ggcaggaaac caggcctctt tttagttgtg ttccatgata attcctacca 132480
tcccttcatg catttcatgt ctaatttgtc cattacctac atgtgatacc agcccacagg 132540
tttcctaagt gttatctcac acatgcctga tgacatccct agggagtcga tgccaggatg 132600
atctccattg tgcaggagag gaggctcagg gagaccctga gaggcacagt ggctttgccc 132660
agagtcacat aagtggtaag aaggaggagc tgggtctgaa cctacatctg tctattccaa 132720
ggtgggaccc tggctgcacc caggccttcc acagggcctg taggaggca gggttagtga 132780
aattctgtac atctatggag ggtcattggg taggggggtg tgcagacagt agcccacagg 132840
gtcatttgca gtcttctaat cagggagggg actcagggag gggatgcagg taagggaacc 132900
ccaggatgta cagaaggtgt ggagagcatc gtgctgagaa atctggctgc aacctcaaca 132960
gtgatgtcca gccaggtctc aggggtcggg ctgctcccct ccccacttca gagtaaacat 133020
caacatgact gacattccac gtgccttcca atgacaaaac cttccctctg cctttcagag 133080
atgcccagtc aatgtcccac tcccaggacg tcttcctaga ctgcagtcta ccacataatt 133140
gggttgagtt tatcaatgct gtgtcccctc cccagcttct ggcagctctg ctctgtgtgg 133200
tccagcccta tcccctccct acacgctcac ctgcacctac ctccaggcct cctcaccctc 133260
agaccctgcc tcagtggact ctgggtgctc cagctgggcc aggagtaggt ggacacggtg 133320
ctgcaggtcc gggcaggcat gttgagctgc agataggccc cagcacctcg agaggggca 133380
actgtggggg ctgatagaaa tcactggcgt aatgatccat ccaggtgccc agcatggagg 133440
agatggtgca gggggaggca ggtgagcaga acacatacag gaccagtctc tccttccacc 133500
ctgccctcca agggacatcc ctgggaaaac ctctaacttg gctcatgcct aaattcctgt 133560
gtgcagccta taggtctcct cttcccaccg acacttctct taccccaccc ccatggtctc 133620
catctgtgat gtcagcgtgc gtgtgcgtgt gcgtgtgtgt gtatgtgtgg atgctgagag 133680
ctaacagttc cacaggggat ggtcaggcag gatggtgaat caaggtccag ttgggactgt 133740
cttcctgggg aagacacagg tggacccttt cccgagcagc tgtgcctact gtcaatgctc 133800
acacacacgg ggcccacgtg ggatgcagac agggcaaaca cgggagaccc cctgcacaga 133860
acatgctcaa ggcaccaatg gttcctccaa catctgttcc cacctgtcct gtcccctgca 133920
gccagaaagt ggtattagcc tcacttaacc atatggaatt gcagggagtg gctagttccc 133980
taaatggtaa tgtaggcact ataacaatta gaagtgaaca tggatgtggg ccaggaaaaa 134040
gctccggatc ttcagaatta cacaaagcac ccacacccct gcctcttgtg tagaggaaat 134100
aagttccaga gaaaaaatcg tctggttcaa gttcacacac agattcaatg aaaagctggt 134160
atcttggtta ggattagttt tgcctacaca tagcagaaaa cccagaataa cagcaccaca 134220
gagaagagag agaaagagtt atttctttct ccaataaagg agctctggag gtgggctccc 134280
tgctgctcct ggatggcccc ccaaggcagt cagccagcat gaatctttct gccccagcat 134340
cttcatagct ggtttccatc ctgaaggctg tctcagggcc cacggtgact gcttttcaga 134400
gggaaaggag gaggaaagaa ggacaaaggg gccgcacagc tgtgtcagtt ccacctaagc 134460
accctcccca aagaccctct cagtccttct gctcacagct catcagcttg aactttgtct 134520
ggtccctctt agctgcagga gaagttagga ataatagcct tttagtttgt gtggcaaatt 134580
gtgttcctaa taaaactgag tctctgtttc gaagaaagag acaagaatga aaaccgcgtg 134640
tacacgaaca aagctctctc cctaccctaa actccaagct gaaggaggca ggagggattg 134700
acttcttttc ggctgaattg ggcattcctt cacctaccac ggcctctctt ttcttggtga 134760
ttattcattc tcggagaggg gacaaaagcc gtgattccaa actaagacat tggagtggga 134820
aacccgcttt cagttcctca gcagaatgat gagaacctct gtgtcgtctt tcatctgtct 134880
gcgcattggc agaaggtctg agaaaaccct cttttatatc ctaaatggaa gagcggaggt 134940
ggaggattgt ggagaatttt gggcaagcag catgttccta aaccgggtca caattgaagc 135000
tctgtaaatg aacgaagtgg aatgctttga cctcaccatg gcccccggaa caccttgacc 135060
tctattgtga gtattacagc aaaaacagtc cacacaaaat acaactaata atggttgaaa 135120
actccacatg gtaaaattta tcactgacaa agaactgatg aaagaaaaaa atacttaaaa 135180
aacattttga catgtattat ttgaccccgg gcacatgaaa aggtagaaag aatgattcca 135240
aaaaaactta aaaagagaga atatatagtc agtaaattat gtggacaaat gacttacata 135300
```

```
aaacttaatt gatcctgata acaatttcag ttttctaaag tataaaaaat caaattttag 135360
taaattaaaa ataaaagtga gtaaacgact ttggtttact ttctgtatgt taaaaaatca 135420
gtgagttaaa atatcttact gaagtttgct gtcaacaaaa ttttaaactg ttgataataa 135480
ttcttttttt tttttttttt ttttgagatg gagttttgct cttgttgccc aggatggagt 135540
gcaacggcac gatcttggct cactgtcaacc tccacctccc gggtttaagc aattctcctg 135600
cctcagcctc ccgagtagct gggattacag gcatgcgcca ccacgcccgg ctaattttgt 135660
atttttagca gagacaggat ttcaccatgt tggtcaggct ggtcttgaac tcctggcctc 135720
aagtgatctg cccacccttag cctccccaag tgctgggatt acaggcataa gccaccacac 135780
ccggcctgtg ttgacaataa ttttgatttc aaaggttact gagcacagaa taaaaatatt 135840
ttgagggatc gaatctctct aaggtagtgg cagggtcaga atagcagagt caaatggaag 135900
gcagcacttg caaggccaaa tggacttttg tcattttaaa tgtgacacag agataataac 135960
tatgtaagtt aatcccacaa tgaaattttt aagcaggttt attagtgaga ttacggtaat 136020
agccaaataa ccgttcatat tccaggggtg taacactgta tttcactgcc ccctggcttt 136080
gctggttgtg cactcagttt ggggaggcag ttctccctgt ggtcactgag gaaccctgaa 136140
ttcttccacc tggtgccttc accatcctag ggacttcaac cccatctgca ttcagcagaa 136200
gaaagagaag aagcatggag aaatacccgt gggggatttt atgggcctgg actggcagtg 136260
gctcccataa gtcccactcc ccttcccttg gcaagaactg gtcacgtgac tacacataac 136320
acaagggagt ctgggaaatg tggtacagct gtgtgtgcag agaaggggag aatggatttt 136380
gctggacagc tagagttctc tgcaactgtg agtaactcat ttggattaat tgtgtttctc 136440
attttatttt gttttaagac agggtcttgc tctattaccc aggccgaagt atagtgatgt 136500
aatcatggct aactgcagcc tggaccttcc aggattaaat gatcttccca ccttagcctc 136560
ctgagtagct gggaccacag gcacgtgcta ccacacccag ataatttctt aactttttgt 136620
agagatagga tttcaccatg ttgcccagga tggccccag ctcctgggct caagcaatcc 136680
ctccaccaac tcgacctccc agagttctgg gattacaagc acgagccacc atgcctgacc 136740
aaacgtgatt ctcaaatgtt tgttgagtgt ctactgtatg ctaggccctg agctaacagc 136800
tggacagaga gctgcaccat agcctgagag aagctcccag tctgcagaag gagatcagac 136860
gtggtatgaa gtgcttgcta tcctaagaag gataaagtga aagtgctaga aggctagtga 136920
attattccag cataggaagc tgcctgaaga tgacagcaac tgagctccat tttttgtagag 136980
aaactagatt tggctggtag agggagacag caggggagc tacagaagca tgtaattttt 137040
ttttttcttt tttgagatgg agttttgctc ttcttgccca ggctggagtg caatggcgct 137100
atctcggctc accgcaacct ccgcctcccg ggttcaagtg attctcctgc ctcagcctcc 137160
cgagtagctg ggattacagg cacgggccac cacgcctggc taattttgta tttttagtag 137220
agagggggtt tcttcatgtt ggtcaggctg gtctcgaacc tacctcaggt gatccgcccg 137280
ccttggcctt ccaaagtgct gagattacag gcgtgagcca ccgtgcctag cccagaagca 137340
tgtaatttat gtacaagtta tggtaaggaa cgctagacgg caattaaagt cagattttca 137400
aaaacattaa atggcacgaa taagtgctca tactaagtgc aaaagtaact gggaatacag 137460
gatctcccac tgttttgaa aaaatctct atatctaaat tagatgaaag tatacaactc 137520
ttttgagtga tagttttcat ttctctgaaa tgttttattg tttataaaat cagccgggca 137580
tggtggctca cgcctataat cccagctact cgggaggctg aagcaggaga acagcttgaa 137640
cccaggcagc gaaagttgcg gtgagctgag atcgtgccac tgcactccag tctgggcagc 137700
agagtgaggc tccgtctcaa aataaataaa taaataacat aaacatcaga aggattccat 137760
caatatactt tgattggttt actattatct ttaaaccaga cgtacatagc tttgatgtaa 137820
accagttatt ctcaacactg tcccacccct caccctgcta acgctgtgag actgcaacct 137880
tgtctccatt ttctgtccta gaatccgaag cctcattcaa ctgctcaatt aatactccct 137940
gaaatggtgt actggggaga gacttatttt ttcataacgt gcaatgacaa aacaaagact 138000
tccactagga agcacccca aagcactgaa tcttacacag tttgtttgcg atctaatcaa 138060
aatcctgaga agacacccttt tatttttatt tatttattaa aaaaaaaaaa aaacaacaca 138120
ccgcacttt aatgtgatct tttggagacg aagtttgga gccctgcagc attcatgcca 138180
ttttctatat ggccaccaga gggcagtgtg tgtgcgactg cttttgacga tgatattgcc 138240
catttcaata gttgtccaag ctggccttct tcagaatgtg ttcatgacct tagggaattc 138300
ctctttcttt tctgtttttt tgatacaggg tctcgctctg tcactcaggc tggagtgcat 138360
ggcatgatca tagcctactg taacctcaaa ctcctgggct cgagcaactt tcaccgcccc 138420
ctgcccttag cctccctagt agctaggact acaggtatgc accaccacac ctagctagct 138480
tttaaaattt tttggagaga cagagtcttg ctatgttgct caggctggtc ttgaactcct 138540
ggcctcaagt gattctccag acttagcctc ccaaagcact gggattacat acaggtgtga 138600
gccactgcac ctgactgaga atgtcttcaa taaactttt tttatatctc tattatcatt 138660
tggaagctaa tgaaaattcc ctataaggaa caaatataag ataatcctct gactggaaat 138720
gtaccttgag acaaaggcaa gccatggaca attgcgtcta accccagacc tgtgtccaga 138780
tctgccgctc tcttctccat ccattcattc tacaaacctc tgtctctaca aaatatcttt 138840
```

-98-

```
cgacaattgg acgtaatgta ctagagacac tttccaatca cagcaacccc ttctttgtga 138900
tatgaatctt ttggtaacag gggtcttcct cataagagag tagaatatga aataaaggaa 138960
gaccaaataa aggaaattgg caggaggtct cagtggaagt ctgtccagag gggaaatctc 139020
atgttagcat agcaaaaatc cattatacat tgtctgctat ctccaacgca gtgagtttcc 139080
actttccctc taaaagtttg ctaaaatcct ttatattcta agaacatcac gttataataa 139140
caaaagtagt cataacaatt ttaagaaaaa gacaaaatta ctactttaat caccagatgc 139200
tccagcttct acagttcatc cctcagtatt ctatcataat cattggtcag cctcacaaga 139260
tattaatttg agaggagtaa ttctacacct tggttctgac catataccag agtttcttag 139320
cccagtacct ggccaaggag aggtgcctta gaatacccag caaatgaact tgggacacaa 139380
gatctgacag gttggagaag agcatttgac attgggactc tcatttaaaa cagctcagat 139440
atgaggtcac cataaacata ctacttgata acctgacagg ctctttaaac ctgattgtcc 139500
ttccacagca acccccagct tggacctacc tggccccagg tatttcccag aatcaccccc 139560
tgctttgact tctcttgctt actttggtct cccttgtgtc ctactgggtg gttcttcact 139620
ctacgtctcc gaggacacct ctgacaccct tggataccct aatgaatctc ccatttctgg 139680
ccgacctgcc atcacctgca gctggttcta cacttgactt tgattgcagt atcatccaca 139740
ctccggttag aagacactcc cagcatgccg agcccaggag cccacaggag ccaaagaagg 139800
ccccctccca atctattcca acatccgcat tagggatagg ggattcaaat gtctacagat 139860
acgttgggaa gaaaagggtc tcatgccatc ttacttagaa aatgattccc tatttccgat 139920
aagttactac acaattgtgt gatttatttg ttctccttca tgcaataaga gaacttggta 139980
taaacaaaaa aagttcgatg tcctaataca attaaagaat atcttaacaa tgtgaatatt 140040
tctttcctat ttctttttctt tcttttgttt atgatcttat taaaaaatgg gaatgtgata 140100
ccctgtctct actaaaaata caacaaaatt agccgggcgt ggtggcgagc gcctgcagtc 140160
ccagctactc gggaggctga ggcaggagaa tggcgtgaat ccgggaggca gagctcgcag 140220
tgagccgaaa tcgtgccact gcactccagc ctgggcgaca gagcaaaact ccgtctcaaa 140280
aaaatacggg acttaaagta aagctatatc tgctttctag ggatggctag aatgggaacg 140340
ttctgttact tgtttgtttg cctttacaaa tatttttagt tcagtaggaa ccatagaatt 140400
cagtgggtca catccttgca ttttgcaggt gaggcagata aggcccagag agagggtgtg 140460
tcttccctaa tgctcatggt caccaattcc tccacctacc tgcagaaaat aaataggatc 140520
ttattacacc cagtatctcc agattatagg ccagtgcgtt taaatagtag gcatccagta 140580
aatcaagtta attgaattat aacttaactc ggaggacttg ccttccccgc cctgtctgcc 140640
catgagtgcg tggtgctggc tttgacccta actagatatt aaacaggagg agtggtatgg 140700
ggtaaagttt ggaacaacac gttttccttt agtgtataaa aattctatga tttccaaatg 140760
tatgaaaacg ttgattgaaa caacttctct ccctgagatc aaagctatct ctccctccct 140820
ctctctctct ctctctctct ctctctatct atctatctat atatgtgttg cagtgttta 140880
tatatgtatc ttctcagccc ttttgcgtaa gggatgggga agagctgttt gtgannnnnn 140940
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 141000
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnctacat ggattctttt tttctctgag 141060
gaccaggaag aaaaagtgtt aataatacct aaaattacca gagagagcat gagctatctg 141120
aaaaatgact gaagcactta ggacgaggtg aggaatagta gatcctgaac aatgaggtga 141180
caaaactaca gagattaaat attaatacat attaaaatat ataatatgtc tattatatat 141240
aatatatagc ttatatatgc tatataacat aatgtcggct gggcacggtg gctcacgcct 141300
gtaatcccag ctctttggga ggctgaggcg ggcggatcac gaggtcagga gatcgagacc 141360
atcctggcta acacggtgaa acctcgtctc tactaaaaat acaaaaaaga ttagccaggc 141420
gaggtggcgg gcgcctgtag tcccagctac tcgggaggct gaggcaggag aatggcgtga 141480
acctgggagg cggagcttgc agtgagccga gatcgcacca ctgcactcca gcctggggat 141540
agagcaagac tccgtcacaa aaaaaaataa taataatgtc tatattaata tatttaatat 141600
gtacatagta aagaatttaa actcaatagc ctcagggtga taggggacca atgacatgtt 141660
tctataccgg aacccattca agtttgtatg ttaagtcatt tactctcttg cttcatgcag 141720
aatggagtgg agaaacgcag gttgtggaca aaagaatgtt gaggaggctg ttgataggga 141780
tttaaactag gaagggtaga gataatggaa acagaaattg gaagacattt taaagagata 141840
cttaggaaaa gaaaagagaa aatggaaaga ttaactgggt gtgaagtatg agaaggatgg 141900
aggaatccaa gaatatggca aagctagacg gcaatgcctt gtttgggaaa cccagaagga 141960
gggtgttaag agggtgggta aaatagtaag tatagtttta gacacggaga atatcctagg 142020
cttgtgatgt ctaagtgaga tatgtgtgag gtccagagaa acacagaaac tgcagacaca 142080
actctagcag tctattggta actgacaaag acaaaagcac acatacaaaa ggaaatcacg 142140
ggctcaacct taagggctta gcctcaagct caagctaaag ccacatgcct agcttttatt 142200
atccaaaagc agatgatatg aaaatgatct gtgaatttag agtcaaatga gtctccttag 142260
agaaataatc caagttatta aaggcattgg ccaggagcag tggctcatgc ctganatccc 142320
agcattttgg gaggccgaga caggcgggtc acctgaggtc aggagttcga gatcaacctg 142380
```

-99-

```
gccaacatgg tgaaaccccg tctctacaaa aaaatgcaaa aatcggccgg gtgtggtggc 142440
atgtgcctat agtcccagct actcgggagg ctgaggtgaa agaatctctt gaacctggga 142500
ggcagaggtt gcagtaagcc aagatggcgc cactgtattc cagcctgggt gacagagtga 142560
gaccctgtct caaaaaaaaa aaaaaaaaat taaaggatca cctttttact gatatcacgt 142620
tgtcagccca gtcaaatgtc tctccacttt ctccacttaa atcactgcag ttcttataca 142680
accctctctg cctatcccca aaatattgaa tccaacagag tcaacatact tctggatttt 142740
tctaaaaatt gaacagagac agatcaatcc ctataccctg aaagaaactg caaggatacc 142800
atccacacat tttatatccc caaagccatt taaccaaaat agcaccaaaa ggacagaaga 142860
tataattggc ttatagaaga acattttggt tagctgcaaa atgtaacact cccacagag 142920
agctcacata acttaccctc tccaaacagg caagtattgg tctataagaa aaagaagcca 142980
attatctaca agtatatagg ttaaaaaatg agtttcaaag attatcccta ttgttacctc 143040
atttctttta ttatactttt aaaagataaa ccttgtatct caataatgaa gagcatcctt 143100
acaaaactct ccacagagta ttcaaatgca tttatttggg atcctgaaat agttctattc 143160
tagtccttaa tgggctcaaa caagctgtac ttgtttaagg ccaatggaac ttttttcttt 143220
ttaaagtaaa aaacctagga cctctcaaca ccttttaacc ttctagtttc taagaaattt 143280
ttaatatcaa tgcacacttc taaatggaat accacagact cataaaaagt atttcagtaa 143340
gcatattcaa tagtaggaaa aactgaaaac ataacaaaaa ccaatatatt aaagtatatt 143400
gaagtaagag aattaatagt actgcttta ttgagcagtt taaactataa tgaaaaattc 143460
aaagcctaca atccatccaa gaacaagaga tgacttacat tgcagataat gaaactaaaa 143520
gtaatgactc agtatatttt gtgccaatat tagaaagcct tcatatattc taaatcttcg 143580
agccatacat tatataacat agctttccat ttcatacatt ttcataacac acgatcaacc 143640
atcatacata atcattatat cagtgttcaa aaacacaagg ccctatcgag accagcctgg 143700
gtaacatagt gagaccctgt ctctccaaaa aaaaaaaaaa aaaattagcc aggcatagtg 143760
gctcacgcct gtggtcccag ctattctgga agctgaggtg ctgaggtggg aggattgctt 143820
gggaccagga gtttgaggct gcagtgagcc atgagcacac cactgcgctc ccgcttgggt 143880
ggcagagcat gaccctgtct caaacacaca cacacacaac acagacacac aggcacacac 143940
acacatacac acacacacac acggtcctat tgtcagataa tgacagtcta accaatgcaa 144000
atctccttca gcatgaatca aaaattgatc aaaactatca aagtcaaaac atcaccactc 144060
tcaccatcaa ttactccgtg gtataaacgg gtcttccggc ataggaattt tcttcagctc 144120
taccaataaa ggaaagctct aaatacacag agcatcccta ttagggagaa aaggtacctg 144180
ctggaatcac catatctata gaaccacagt gctgaaattg acttgaagga agacgcttcc 144240
cagcaagatt gcattcactc ttccaatctg ggaagccagg gtattaacaa gaggcaagaa 144300
atgattgcct tgtgccctaa taggaagctg gtggtaaaac ggaaaaggga aatagattgt 144360
tctcagcctg cactcttccc atagtgctga cactagctta ctgaaacaca ttctttcccc 144420
tcctgcgtac ctaaaacaac catttaaatg acacagaatt tcttcctgta tgtgtccact 144480
ctatcaccag gtactacaac aaagaaccct tctgcatgaa gtacaaaaaa agactcaact 144540
gagtagtgcc taagccttt taagcataat tttgaaacat aatataggct tgattttctc 144600
aagaaagtat tccattcctc ctgaaaacaa taggactgtt ttcagtccat tgcagctcta 144660
gggtaacaga taataaagct tccagtgggt tcctggtagg ttggagcctg actggatcac 144720
agaatagagg cagtaatttt cctatccaat caacacttcc aagtacatct ttacaaagga 144780
agaagacata aattcttccc tccttctcac ccatagtgga gcagtaggta tcaaaaggat 144840
aataaatctc tagtgtggtt agcatcttat tatagcatcc agaaataatt gttactcatt 144900
cttagaattt tgatgttatg actaccttgc tttactacca ttccgaactg actgaggtca 144960
tattttccat atattttaag ataaaaaagc cttagaaagt ttctactgtc actaaaatga 145020
tatctaataa ctatcaagtc acaggcagta cattttttgtt cttcctaat ggttccttaa 145080
tgctaacttt tattagcatt aggttagtac ttagaataca aaacaggaat gaacagagga 145140
atacaatttt ctctattccc tttacctctt ctttcattac aataacattt atatttggaa 145200
ggtcagttgc tgtaatgtca ttactatttt aacattaacc tgcagaaaca agaatagcta 145260
ttcttctatc aacataagtt ctataaagta tcattgattc aatcacacct cattgaaaat 145320
aattaatttt gactgcccag aaaggttagc aattttccag cttcaattca actagtttta 145380
attgccagta ggaagcctgg atactcaact tgtctatatc actgccaaaa atggtgaatg 145440
agcaagtatt catcaagacc tcagtacagt cggtgcttta cacatattga caggcacaga 145500
gcaaggcacg gaagagatat ctgtggacag attagtagga gaggagatga tggatggatg 145560
gaatcgggtg aacaggcaag gaggaaggaa aggcagaggg tggcaagaaa gaagaccaga 145620
agaatcccta aatccaagaa gcatatataa tatgatctag acagtaaagt acagagaaag 145680
tgagatgaca gccagtaagg tctggctgga aaagatacaa agaggaaacg gaattcaatc 145740
agcacttttc aaatgctaaa gcaaaagaga cgaatcatgt attccaagag ggtaaagctg 145800
caagacaaag gcacaagtc gggaaaatga aatgcatgtt cataaaacag tgtaaagtag 145860
agcatttatg aaggagaccg tgggaaggta aagctgcaaa gtcagggtt tgcagccaga 145920
```

```
tgctgtgcag agcagaaaca ctgagggtgt cagctaccgc ctcctcttcc caccccttct 145980
ttggaaagca gcaccctccc ccaaatctta cagccacacc ccatcatatg cttttcttat 146040
ccaacccccc accacagaat atctgataag tgacaaaatg cttacaattc cagaaaaaaa 146100
aaagaaaaaa taatacataa acaatttgca aaaaaaaaca aaacaaaaca aaactggggc 146160
tcaactagta tctggtcagt tcatatcctg ctaagttttg tatacaattt cagggttgtt 146220
ttaacaaatt tggctctgat cactttgaac aatgactttt tttttaagat aataaatcca 146280
gtcaggagag caaatagccc cagttaagtg cctctcatgt accaggcaga attgtagggg 146340
ctttatgtat gctatttcat ttcatcttaa tagtattaat ttgaaattat cttctacct 146400
tcatagatat gaggaaaaat tactggagac tcacttagct aaacagcaaa actaggattg 146460
caaatatacc tagaataaac gtagttagaa taactactgc taccttcatc caactgtata 146520
ttttctgtat cttttcagaa gaatcagaag gaaaagcact aaaagtacct gctccatttc 146580
aaatacgcat ggcttatatc caaacgccta aagctcttaa aactaggccc atcctcaact 146640
cataaagcag tcattaaaac ccatccctga agctactggt gcacttgact tcaatccaaa 146700
ccacaggcct aaagaaacca tgagaaagga tgtttcagac ccatctaaaa tgattgaaga 146760
tcagtgttct ggtccccgct tacatcgcca aattcttctc tgatatatgg aacccagtaa 146820
ggcagtattt aggggaaagc atagcattca tataaacccc tttcctttta taataagaca 146880
ttttatacgt atcaggcaga ttctgacctt cattcgtcag acattaactg gacatctata 146940
ctctgtcagg ggctctgctg gaaatcaaac tactcctggc cttaaaaaaa tccaatgtag 147000
caatttacca agccgtatga gaaaatgtgt actcctagag tgggttcttc cctctactga 147060
tataaaaatc aagataggcc tcctagcact tggggaggcc aaggcagata gaacacctga 147120
ggtcaggagt tcaagaccag cctggcctac atggtgaaat cctgtctcta ctaaaaatac 147180
aaaaattagc tgggtgtggt catgggcgcg tataatccca gctactctgg aagctgaggc 147240
aggagaattg cttgaaccca gtgggcggag gttgcagtga gccaagatca cgccacttca 147300
ttccagcctt ggcgacaaga gtgaaatctg tctccaaaaa aaaaaaaaaa aaaaaattca 147360
agataacctt tagaaaggcc aaaatcagag ttgcacaatc caagttctag agcctatgca 147420
ctttattaat tagctagtcc tccaaaagct caatgatcta cttggtttca tcttatacat 147480
attaacaaca gatttggttt tctaaggaca tatcctggat gggccactta ctagcttaat 147540
gcccttagac aagaagttac tttactgtct gagcctgggt tttttcattc gaaaaatgag 147600
gataaacagc tacacctcaa gactgttgtt aaggattaca gatagttatg taatgcacca 147660
acagagtctg gcacttagaa gtacaataag tgtaaccaat atcataatta caggaattgt 147720
aagccaattg caaattgatc agaaaagtca aattacaaaa aaattgaggg acaggagcaa 147780
agagactaaa gacagctata gccgggcgcg gtggctcacg cctgtaatcc cagcactttg 147840
ggcggccgag gcgggcggat cacgaggtca ggagatcaag cccatcctgg ctaacacggt 147900
gaaaccccgt ctgtactaaa aatacaaaaa attagctggg catggtggtg ggcgcctgta 147960
gtcccagcta ctcaggaggc tgaggcagga gaatggcgtg aactcaggag gcggagcttg 148020
cagtgagcag aagtcgtgcc actgcactcc agcctgggca acagagcgag actctgtctc 148080
aaaaaaaaaa aaaaaaggca gctataacaa taaatagctg gcagcaagaa aacaatcaag 148140
aaactacaca gacacaaaaa ctcagaaact acagactgaa gccaacagcc cacacacttc 148200
aatagctgtt gaggacatca ctaatgtttt tataagatgt aacaatgatg tgcctgaaga 148260
tgacattaag ccctttaaaa cagattaaac ttttattcca tgtgtttaaa aaaaaagata 148320
agcacataat tgacttggga aagattccta tcaaaagcga tttagcatca caaatttaac 148380
acgttggata tctaaacttt aattaactgc aaaactccag taccaagctt ctgttatact 148440
taatatgtaa aggaacctcc cgaatttcag acgccatttt ttctactaaa cactgaaaaa 148500
gatgtatttc aaacacatta attatgaaat acttaaatgc aatggcctaa ggcatcatca 148560
gtttcttaat agctaaaaca agataaagtt tggtctccct cattgctaaa tgtttttaga 148620
tctaccaaag agacacagac atgtgccata gaaatccctt ttcacttgta ttttctccct 148680
acatttggaa ggcggtaaaa agcgaaaaac atctgtttct tcctgtaatg ctgacaaccc 148740
tcattctatg gtttaaaaat aaaagatgct tatggaagct tatagatata atgatcacct 148800
gcttcaaagg cagctggcaa ttaattgatc caaatacatg caaaattaag gccaaaaaga 148860
aatttcccta aggacaatgc cagtgttccc caagcctctg gtaatttcca agacacccgt 148920
aaaaaaatag cagaggagag taaagaagca aacgtagtgg cagatgacat gaagagttga 148980
cagctgagac acaagggcct gtgtcaatct ggattcattt gaccaccata agaacagttt 149040
ccatgagagc tgcttagaga aaatctggtt cactctggcc aacaatcacc cttcatccag 149100
ctcaaggaag gccagatgtt caaccattaa aggaggacac cttattaaaa acaggaactg 149160
gaaaatctaa ttaaagaaag gccctaaatc tgatcacatt ttttataaac agtttttact 149220
ctctatatgg ccttaaaaca ttgtatatcc aaacagaaat aataatgaca ttagacttga 149280
ttcattgact cagtttctat ttctggatct gcctctgaat gaatcacagt gtgaccttga 149340
gaaagttatt tcacctcttt ctctatctac attttcccac cagttacaaa gttaggtaaa 149400
acctactgat cctcttttcc tgaacaatgc tgagtgaatg acataaacat acggaagctg 149460
```

```
ctacacaaaa atatatttgc tgattaccaa ccagctgtat ccaaccatca aatacaaaat 149520
aggtgatgtc cttataaaaa cgactagctc tgcaatttta ctttgcacaa tttaaaaaac 149580
aaatcacctg gagaggtcaa caaaacccag gtggttccta tacaggactc ttttaagagt 149640
cccaaatttc aaatttggga atacttagca aattaaacta aaatgcaagt tccaagaaga 149700
cacttgtttt tttaaaggaa aacaaacatt caacctattt agggtcttgt gatcttccag 149760
gactctgttc aatcctcctc tctcaagtcc tcttccctca cccttgccca ccaagcagat 149820
aagccactgc atccgtcgatg ttcccagcag tgatttgcat gtctatatct atacagatat 149880
ttctgtgcac tgcacttatg tcatgtctcc tcctcactag tcagcgagcc ttagaaaggc 149940
aaaatcatga tttaatggtc tatgtatcac ctacatctag aatactgcct agcacagtgt 150000
gctactattt agaatactgc ctagcacaat gtggctgctc aatgtgtgtg tgtgtgtgtg 150060
tgtgtgtatg cacatatatg cttacaaatg tatatacata tatatatttg ctaaatgaat 150120
gaaataaata aatttccaaa gtcttatgct agtaggaata gctatcatta atattaatga 150180
ttgataatca ttatggtgaa ttattttcac ttttcaaaaa ctatatacgt gaatgtcact 150240
tagataaaga gaaaatatgt gatttcttac caacattaaa ttcacaaaaa ttaatgcaaa 150300
aactttccaa tcttcttcta tcaaaagtga tctttctttt ttatttgttt tgcattttgt 150360
ttttgttttt ttacaattta tctagtgggt ataaaactac aaacattctt tttaacaatc 150420
tacacaataa agagaaggtg gaaaagaaga aaaataagag tatgtgaaat gaatggaaga 150480
agctactttt aagggtaaga ccctataagg gcaaaataaa aggtggccca cagatgaaaa 150540
ttaaaatgtg gtcaataaaa gtagctaccc caatattacc agcatttagt caactaagaa 150600
gtcgctgtct gtgccgagaa atttcatcta agcaatgttt tacagataat gtatttatta 150660
aaataataga acataagatt ttaaaatttt cagattgcat ttgaaatgtt taatccttca 150720
aatatttatc ataaacctat cagtagtcat gtaacttttc atatttttcg attcattaaa 150780
ttctaacact ctatttcatt taataattaa gaatagaggt taggtaaaca tgttgggctc 150840
ttaaggtaag gccttgggcc ctgtaagcct gtaagctagg ataaactcat tggactgctt 150900
gacactgacc agagcaaaca tactctggct gtgctttatg ccgccctggg tatgagtcta 150960
taacatatgc tagggagggg aggtaccagt tggactagac gtgcttttga cctttccacc 151020
ttcactgtct ccaaactaca ggctgttctg ggctggacca tgaaactgaa tgaaaattat 151080
ccctactatt ctatttattt attaattttc taatagcatg tatcggattt tcttgcagca 151140
gcaaacagca gtgagtgacc gcttaacttc actaagcagc ggaacccaga ctgctgcaag 151200
atagaaacta catatcacat acataccaaa cgtggacaaa tacacacagc tatgagagcg 151260
gtcagagact gcctttggat cgtaccggaa taaatgattt gtgcctccaa aaccgactct 151320
tgcgaaagaa ccatgaacaa ttttttttct ttttaatgct gtggtgatga aaaatgaaag 151380
agaagaatga tggtttagct aacgagacga aaaaggagtt tatctccctg gcgtgacccg 151440
aaactttgtg aatagcaggt attttggtga aatgggcaga gcaacttagg acagacacaa 151500
ctaagttgtt ccctttaaga tcttgtaaga acacagaaaa ccaacaagta tgtccaagtc 151560
atttcaccgt ggggggtgag ctcgctgggc ggaaaaggat tccctacgga gaagagatgt 151620
gccactacca ggtcaccgcc ttccagagcc cagggagggc gggtggcagg ggaaggccct 151680
gactgacagg cgacttgaga cccggaggcc agcagcaggg cgcgctcacc tgtgaacacg 151740
ttctggaagc catccgcacg cgcgggggc ccagacgcct tggcggccag tgctggggac 151800
accccaccgc cgctgtcact cgccaccccg cgctccagca ggtgcgcgga gcctcccacc 151860
cggggcgtgc gggcgcctag ctcctccgtc cagtcagccg agcagctcag gccggccgca 151920
aggccgccgt cggcccggtg cttcttggcc ggggcggcta cggaggccag ggcagttctg 151980
gaccctcggc tcagggaggg ttccggccgc ctcttgatcc tggggctctg attaggggac 152040
tgagacgggg agtgattggg cgagctgagc tgccgggtgg tggtcttgat gtagcagggg 152100
gtgatgagcg ggtagggctt gaaacagcgc tggctaggcg cggggctgcc gggcagggaa 152160
gcggccgcgg gggcgtcagg tccttgcgcc tcctcctccg gctcttcccc cagcctctgc 152220
ggggcgtcct ctcccacctc cggggcccac tcctcccccg gagagccccg gggcgcatcc 152280
tcaaaagcat cctcctcacc ctcctcatcc gtgtccccag cccctcgcac gggggctccg 152340
gccgcttcct ccccccggccc ggcctcggga aatgggaaag ccgtggagga gggcgagtct 152400
ttggccgcgg gttgcgctgc cgggagactg ggcgcctcgg agaccgggag gccgccgggg 152460
gacggcggtt gctggggctc ccggggctcg gcggccaggc tctcgggcag gtcggagagc 152520
gcggacagcg cctgctcggt gtccggactg cccggggcct ccccagcccc gccgctcggc 152580
cccagcagga accggtccag gcccaggaag gccccgggct gaggggagac ggcagtgggg 152640
ggcgctgcag gctcctcggc gccctggagc tgctgctgct gctgctgttg ctggagctgg 152700
agctggagct gctgctgctg ctgctgctgc aggcggatcg cctgctggat gtctgaaagc 152760
aaatcctctt gctccgtagc cgaatggaag ctatagatgt ccgtgtccga gcccgagctg 152820
gtcctttgtc catcctgcgc ccctgctgca gtttccacat cctcggcgat cggccggccc 152880
ccgaccctag cctcggcagg cccaggaccc cctggaccgg tcacctcaaa agggtccgca 152940
cactcggtat ccgacaggcc ggcctcgtcc gccgagaggc tgaggtctgg agtcttggtg 153000
```

-102-

```
agcagggagt gagcgctgtc cagctccccg gtctgcaggg cctgggaatc cagtacatct 153060
tcgcgggagc cgccggcgcc tttccccttg gacagattct tcctgatccg caggttggaa 153120
aacaccgagg ctctggagtc ggacttgctc ttcttcttgc ccgactcccc gccgccgccg 153180
ccgcccccctc cccccttgcc gtgcttgcct agcgccttct tgcccccgct ccccttcttt 153240
gtggcttcca catccctggg ccccagcgca tcctcggcgc caccgccgcc ttcgtgcaaa 153300
gcatcacctg cgctcctctt cagcttccca tcctggttcc ccatggtgca atcccgctgc 153360
tgcgccgccg cgccgcgggc actcaggcca tcccggccct cctcggcccc aggtccgggc 153420
ctagggagtc tcccgggaga gtcaggcggc ggcggggga gccgctggga ggggaggccg 153480
acgcgcgccc ggctggcccc gctcgcatct gccgccgctt tgcataatgc gcggcggctc 153540
ccgtggctgc cgtcgctgcg gggnnnnnn nnnnnnnn nnnnnnnn nnnnnnnn 153600
nnnnnnnn nnnnnnnn nnnnnnnn nnnnnnnn nnnnnnnn nnnnnnnn 153660
nnntgttttt ttttttttt ttttttttt gagacaggg ctcactctat tgcccaggct 153720
ggagtgcaat ggcacaatca cagttcactg tagccttggc ctccagggcc tgggtgatcc 153780
tcccacctca gccacttgag tagctgggac cacaggcatg caccaccatg tccagctaaa 153840
ttttttttt tttttttgag actgagtctc actctgtcac ccaggctgga gtgcagtggc 153900
acaatctcag cacactgcaa cctctgtttc ccaggttcaa gcaatttttcc tgccttagcc 153960
tcctgagtag ctgggattac aggcacgtgc caccatgccc agctacttt tgtatatttt 154020
gtaaagacag ggtttcgcca tgttggtcag gctggtctcc aactcctgac ctcgtgatcc 154080
acctgccttg gcctccaaag tgctggaatt acaggcgtga gccgccacac ccagcctgcc 154140
cagctaaatt ttgtaacttt tttttgtag agatggggtc ttgccatgtt gtccaggctg 154200
gtattacagg catgagccac cacgcctggc ctctcctatt aattcgactt ttgtcagctg 154260
attttcagtg aaccttcaga gggcaaaaag gaagtattat ggtggccttt acacatattt 154320
caaagtgttt gcctatttgc ttgcctgtct ctctcctcta gatttcatac ctctgaggat 154380
agggcagtgt cttatttact attatatctc taggacccca cgcagtgcct ggcgcatagt 154440
gggtatgcct taaatgaatt gatatatctc ccatttgcat tgtactaatg gtgaactgac 154500
aagaaaagct aatatattct tatggcccct acctccagca attctatata agaaggtagc 154560
aggaaaacaa atacacagag agagaaaaga cgatatggtt gaccccaaga aagttcagtg 154620
gccaaaaatc taagtgcaat agaagtttag agagagagga tgtcccgctt gatggaatgg 154680
ttggaggaga ctgaatgagg agcttaaacc tccacatttt ctcctcacta cttttacagt 154740
tcaggacaaa aggcactttt tgagcccttg ggcaaggcag ggaacaattt atttagtgtc 154800
ggtcttttcc cagactggga gccatcattc ccaagaggag tttggcagtc tgtcctctga 154860
ccttcattta caaggagtcc aaagcttata attactattg attgctgtta ttttgccctt 154920
tagtttatat ctgatcacaa tgaacaaaga cagatacaga atttcagatt ttggaaactg 154980
tatagaagcc tgcaacaagt ggatgacaaa gaggtcctcc aaaagctagt ttgctagttg 155040
ctctagttga aaaatatata atagtgtctg cttttcaaaaa gatttaaaga catacaattt 155100
ctttcaagtc ttttttttttt cttttgagac agaatcttgc tctgtcaccc aggctggagt 155160
gcagtggcgc gatctttgtt cactgcaacc tccgcctacc aggttcgagt gattctcctg 155220
cctcagcctc ccgagtagct gggactacag gcacgggcca ccacgcccgg ctaatttttg 155280
tatttgtagt agagacgggg ctttaccatg ttggtcaggc tggtctcaaa ctcctgacct 155340
caggcgatcc acccaccttg gcctcccaaa gtgctgggat tacaggcgtg agccaccgtg 155400
cctggaccct caagtctcat ataccataca aagcgaaaca actgaaggag tctaagaatc 155460
aggaagcgtt atgcttaaac acagttttaa aaagactttc agaatgttga cctggcactt 155520
ttataaaaaa gttcaaattt cctgatagta gcgcttactg ttactatta tttatttatt 155580
tttgagacaa agtctggctc aggctggagt tcagtggagt gatcagcagt cattccacct 155640
tggcctctca agtagctggg actacaggca tgtgccacca tgcccagcta atttttaatg 155700
tgtttgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtggaga aggggtctca ctatgatgcc 155760
caggctgatc ttaaactcct gggctcaagc aatcctcctg ccttggcctc ccaaagcgtt 155820
ggaattacag gcgtgagcca ctgcacccgg caagtagtgc ttatgaaaat accataacaa 155880
agatgtaatt tcccacatgc gaggaacaat tttggttctg ctatcactgt tccctttgac 155940
catcaggcaa gagtatgact cccgctcatg ttggccttat ttacttcaaa gtaaatgtta 156000
ggtgtgttta tttaacctat attgctgtga attccctgac tattcctgtt caaaaaagga 156060
attcagaaaa taataaggtt tcagatgaaa tctttcaagg aagaaaagag aattgctgta 156120
catgagcaga aacagctaag agtatagcat gccgacacaa ataggaacgc ttacaagact 156180
agaaagcctt ctggggaaat gatttgggag actgtggtaa ggaggtttat gaatgttcgt 156240
gggaggcagc tccgagcata aaggtcaata aaaaacaagg gatggagttt gggagtgggt 156300
gaggaagaca aagagcgcag tcagaagatg ggcttggaca gagtagccgg cgagctgcat 156360
gtaggagggt agagggtgag aaatgcactc agatgccaat agaatcagct ctatatgacg 156420
caggagatgc caagaaaaga atgcaaataa gaatgtagca aaacatgggt gaaattgttg 156480
gagcaggtgg tctctcgcta aagaggaagg ggtaggggga agcagtggga gtgaagtggg 156540
```

-103-

```
gaatatgtca ccatacttac aatgcacaaa aatgaaatgt gtacattgat tttgtaagat 156600
caaggctgtg tattctttct tctaagagac actgtcaccg aggctagagt gcaatgtcac 156660
agctcactgc agccttgagc tcttgggttc aagcaatctt cctgcctcag cctcctgagt 156720
aggtagaact ataggcacat gctaccacac ctggctaacg atttgagttt ttgtaaaaac 156780
aagtgtcttg cttattgccc aggctggtct tgaactccta gcctcaagtg atcccctggc 156840
cttgacctcc caaagcgctg tcattacggg catgagccac tgcttcttgc caatgctaaa 156900
ggtgtttaag aagagcagtc aattaattta taatgttgaa gaaatatcac aaagtttgca 156960
aatgagaagc acaaggatta tttttttaatg ccagtaataa gttggatgag attgaaggcg 157020
ttactaaaga ctgaaaaacc atatcaagag agaagaagaa ttgtatacaa ataaatagag 157080
gaaatatggt agcatatgct atgtagtaat tttggaatat atgaaatata ttagttgaac 157140
tgaaacggtt aaaattataa ttattttgca tatctgtgca gcacacattt aggtttgaca 157200
aatacaacat gggaatatta aatatgcttt ggtatcaaaa tacaaagaag tccattatag 157260
ttaactaaat atgtcttgct aaaaattata atgcaaatga gcgttcttca tcgctttgac 157320
tgcaggatcg gatatatata tagataattc atattcaaaa tctcaaatgc agccacctga 157380
gtggataaga agagaagtaa atattagttc tcctctcaat ttatttgctt atgaagaacg 157440
aggctgaaaa tattgaatac atttttatttt ttctactgtg ctttttaaaag ggagttagtt 157500
taagagccta aggggttgaa aaaaatatat tgactggaaa caaatagaga tattttttcc 157560
tggaaaacgt atgtcataat ttataaaaca agtattgggt tttttttgttt gtttgttta 157620
caatgctgtg aaagcttaca ttcagctgat agtgtttaat aagtgtcgtt ttcagacgtt 157680
attatagtgt gctgataatc ttggcaaaat tcatgagaac tgtttaaatg aaacaaatga 157740
cagagatgat tgtgagttct tgaaaacacg ttttttgggag ggagctaagt gtttaaatct 157800
cttcagtgag ctcttctcct agcagcttgg cagttgctac cttggatgtg ttagagacag 157860
atgctgaagc caactcatgg ttaatgacct tattcaaggt cactgaataa atcggtttca 157920
gtcctagggc tagacttcta accacagagc cattatgtgc agcctgtctc ctgagctgtg 157980
ttgccattaa ttgacccttt aaatacgttg ggttttcaaa tctcatttaa aaattcaacg 158040
tgatgaaacc ataaaaatgg actctccctc tctctccctc tctctttctc tctctgtctc 158100
tctttctctc tctctcacac acacacacac acataattta tctactttgc agcattgttt 158160
agggctgagt gaaaatccag aagctttcag atccagacaa atccagctta tagaaatgtg 158220
ttgtttggcc aacagaatgt actcactttg gttttaaatt agctgtcaac atttagaaat 158280
tgggagtttg gtgtagttgg cttcctgact tcttttttaac aatttaaaga tctggggaca 158340
ttggtttgtc ttttcaaatg gtaaaaatcc cctgcagctg ggtagcacaa acccttttaa 158400
acgggcataa ttcatcacca tctccacttg ggggcctctt cataattttac attaagtgtc 158460
cagcctctgt aggcatgtga tctgggaggg acctaattat ttgaccagat tagaaacatt 158520
caatagtttc caggccattt tccagggtat gccagtcaaa gccttcataa tagatcttca 158580
atttatcttt ccatcttacc tttctgcatt ccccaccacc atctttctgt ttccattcct 158640
gaatataaaa gtacacttga gtataaagta tactgtcttt atctaaggta ctcactgtgt 158700
cctaagtaca atgcatacat gctggtattc ctgattttat gtgtactcct ggcttccctt 158760
gcttaaaaag ccttccctat ccctacaccc cagggcaacc tcctgtggaa tttactatca 158820
gctctaatat tccttcctaa atgtagactt gaaaattatc tcccatctcc atcttctctg 158880
gggttcccta ctttcttctc tttgatcatc tatcacagca cttagcaact tgccttatgg 158940
taatttggct acttatccat cccacactgt gttatttgca gctctggcct caggatctga 159000
ctttccattt tctcactttc ctacaggagc aaagttgtgg ccaggaccat tgacagtcca 159060
gtagttcgtt ctgggcttag gtagaggtac cctgcagtta gctggggtgg tccgaagagg 159120
ctttttgctga gcagactctt gcttgaagat agaggtaatt gcttgaaggg aatgtataca 159180
cccttttctga ttcttgatct tccttaatgt ggagataggg gatgaagaca ggagtatagt 159240
agagttgctc cgtataagac ctgatcactt tccaaaaggg gcaggaccac caggcagcaa 159300
aactgtatca tctgtatcat tttaattttaa aaaggagagc acagttctgg ttcaagagcc 159360
atcaaaactg cttctgggca atatcacaat gtgtcgatca taaggagtta caggccctgc 159420
ttgtagcctt tgctgaaccc aaaaccctaa tcaaatgat gtgtgttggt ttccagccaa 159480
gtcttgcctt tgaatcttta ctgaaataga ttaagggaaa ttgagatgtc atatagacaa 159540
ggtcctggtc aatgagctca gctataaatc aaaccaaagc actacagata gaagccaggt 159600
gtataaccca tatctcaaag aaaatcaacc tccttccctg caccccctcc caacctcgag 159660
gaacttatat ggtccttcat atactgccca ttttgggcac tgtgccttga tgtttctgtt 159720
atccaaaagg ggttccgatt cagaccccaa ggggtggttt ttgaacctca cgcaagaaag 159780
aattctgggc gagtccacag agcaaagtga aagaaagttt actaggaaag taaaggaata 159840
aagaatcgct tctccatagg cagagcagtg gcatgggcgg cttgagtgaa tatacttata 159900
gttatttatt gatgatatgc ttatgctaaa caagggttgg attattcatg agttttccgg 159960
gaaagggcag gcaattcctg gaactgagag ttcctcctcc ttttagacca tataggtaa 160020
cttctggacg ttgccatgac atttgtaaat agtcatggca ctggtgggag tgtctttgag 160080
```

-104-

```
catgctgatg cattataatt agtgtataat gagcaatgag gatgatcaga ggtcactttt 160140
attgccgtct tggctttggt gggttttggc tggcttcttt actgtgtctt gttttatcag 160200
cagggctttt gtgacctgta tcttgtgctg acctatctca tcctgtgact aagaatgcct 160260
ctgggaatgc agcgcaggag gcctcagcct tattttcccc agcccctatt caagatggag 160320
ttgctctagt tcaaacgccc ctgacgtttc catgatttca ctgtttctga ggaagcattc 160380
actgccaagt aacactgcgt gtcgccctca gctcttaaga tctcttagta cacaatacta 160440
tctttagctc ttggaatatt gaccaaatgc aacattcatt agaaggatgt tccagatcag 160500
aaacccaagt ggtaattgga tggtaattcc aatggttaat tgtgatggta attccatcac 160560
actaaaagta caactgtgtc ctttccattg taattaagat tcataagtaa cgatcttctg 160620
aaagcagtat attagtttca gcatataatt ttaggatgct tcctataaaa agtatctgag 160680
tgtaatccca gctactcagg aggctgaggc gggagaatcg cttgaacctg ggaggcggag 160740
gttgcagtga gccgagatca tgccattgca ctccagccca ggcaacaaga gtgaaacttc 160800
atctcaaaaa aaaaaaaaaa ggatcagagt acattattga acgttattga aagtagttaa 160860
aactcacatt tttaaaagtg aagataaggc atcctatggt tgtttaaatc agaagtgcca 160920
tattggtatc agggacttgg gtgtattcta tattctaatt ttgctgtcat ttgacttgtc 160980
ccttcctggt ttcaagacag ttgttacact tcaggaatca gacaaagaca atgtcttaca 161040
aaacaaaggt taattatata agatcttttt tttttttttt taaactaggg agaaaaccca 161100
atctaataag tctcccagca atctcccacc aggtcacatg ggccacagtt agatctcact 161160
cttagcacaa actggaagaa ggaatggaaa tagaatacac agcatttca gtcctatact 161220
tagccagaat ggaggagggg atgtcggagt gatgcaggga aaggaggaaa tggctatttt 161280
gaaggcaatc aacaatgtct acccatcctc caagaacgca aagaatcagc gcaaagaata 161340
attggtcatt cagtgtcttt caatgcacta cctatgttct gaattttttt ggagcggggga 161400
gggggatgga gtcttgctct gtggcccagg ctggagagca gtggcttgat ctgggctcac 161460
tgcaacctcc gcctcctgga ttcaagtgat tctcctgcct cagcctcccc gcccaagtaa 161520
ctgggactac aggtatgtgc cgccatgcct agctaatttt tttgtggtgt gtattttag 161580
tagagatggg gtttcaccat gttggccaag ctggtctcaa actcctgacc tcaagtgatc 161640
cacccgcctc cacctccgtc tcccatggtg ctgggattac aagcatgaga caccacgtcc 161700
tgcccgatgt ttctaatatt aaaggccttt cactaacgtc atttacatta agtgcttgtt 161760
tcttacctac tcatattctg atctgatttc tgtctaactt taaacactag acaccatacc 161820
ctgacttcaa tcttgctatt gtctacttct atttgatgtt tgaactaatt actcgaatgt 161880
ttcactccca actctttctc atggactttc agtttagcct tagatttctg acttctgtac 161940
tccagattac tttgatgggt gacttagttt gctgggaccc cacagttagc attggctgcc 162000
tgacaagagc agatggattt cacatgccct cccatcccca acagtgtcag cacagagcat 162060
ttgtaccaag acaccaggtg gaaaacacca tggaaaactt gggaccatcc tcttttctgt 162120
ttccacctgt gataagaatt acaaagatac tatttaggga caaaaggatt ctaaatatta 162180
taagaaaaga aacttacaat aatagaaaag cagacaattg tttccctacc cctacactta 162240
aaacaacact tcgggaggct gaggcgggtt gggtcacctc aggtcaggag ttcgagacca 162300
gcctggccaa cacagtgaaa ccccgtctct actaaaaata caaaaattag ccgggagtgg 162360
tggcacacgc ttgtagtccc agctactcag gaagctgagg aaggagaatc gcttgaacct 162420
ggaaagcgaa ggttgccatt agctgagatc ccaccactgc actccagcct gggaaacaga 162480
gcgagactcc atctcaagaa aaaacaaaca aacaaacaaa aaaaaccaag aaggttccac 162540
atattctgtg actccatttc tataaaacgt acagaatagg gaaatccaca cagcagaaag 162600
tagatgggtg gttgccaggg tctgggagag gttgtgggga aatggggagt gacggctaat 162660
gtgtacaggt ttattctggg gtgataaaaa tgttctaaaa ttggccgggt atggtgactc 162720
atgcctgtaa gcctagcact ttgggaggct gaggcaggtg gatcacctga ggtcaggagt 162780
tggagaccaa catgatgaaa ccccgtctct actaaataca aaaaattagc tgagcgtggt 162840
ggtgcacacc tgtaatccca gctacttggg aggctgaggc aggagaatcg cttgaacccg 162900
ggaggcagag gttgcagtga gccaagattg caccattgca ctccagcctg ggcaacaaga 162960
gcgaaattct gtctcaaaaa aaaaaaaaag ttctaaaatt ggttgtggtg gtggttgcac 163020
aactttatga atataataaa agctattgaa ttgtacactt aaatgggtg aattatatag 163080
tatataagtt atatctcgct aaacctgttt tttttaaaaa gaacttaaga ttttgaaaag 163140
tgttattcat tagattccag tggtgtgatt gcagcctcgt aatccacttc accagcttgc 163200
aaatgcttga cacattacta aagaaaagat gaggatttgc cgatactctg gtgctataga 163260
agtatttcta ttcttcagtg ttcaaaccaa aaactgtgaa tccgctggat gagtaggaaa 163320
agcagaggac ataatgttct tcagttagac actgtctttt tttttttttt tttaaattga 163380
gacggaatct tgctctattg cccaggctgg agtgcagtgg tgccatcttg gttcattgca 163440
acctctgctg cccgggttca tgcgatcctt gtgtctcagc ttcctgagta gctgtgagta 163500
caggtatgcg acagcatgcc tggctaattt ttttgtatta ttagtagaga tggagttttg 163560
tcatgttggc caggctggtc tggaactcct gacctcaggt gatcctccca cctcggcctc 163620
```

```
ccaaagtgct gggattacag gtgtgagtca ctgcacctgg cctagacact gtctttaaca 163680
gaaatgtaca tgccactgtc ccccagactt tggtcgttat tgatgtgatt gctggaacat 163740
aatgcttcaa attatccctc aattcctgga ctaaatcaat ggttttacat gattatcact 163800
gaaacgtaat ccattaagtg cttaatttac atcatattaa caatctcagt acactgggag 163860
tttctggttt gtgacagatc aggaaaaata tcacttcaac caatgcctgt gaaacatttt 163920
tccttgagtg caaatgaatg tttcagtcta gttttttgtat gtgaacatca tggtaaccaa 163980
cttcaggaaa aagtttctat ccttttttc taacagataa tactattttc aacatataaa 164040
aggaatgtat tatttctagg gatacttcag gtcccagcag cttctgagtc ttctcaacaa 164100
ttacactagg taagtaccct tggatatcca catttgcagc ttcaagtttt acagattaaa 164160
tcgttctgat agttttaatg ctttgtgcac taggatgcaa agatgctaat ttttcactgc 164220
atagagtagc ttctttaatt ttttatgttc tctattacat tataagaatt gcatattatt 164280
tatttattct atgcattggc cccattcttc ttttctttgc ccgctcaggt tttctgtttt 164340
gcctcctggt attccttcgg ctgcattcac ctcagtttcc cttgctaact ctcctttgct 164400
taaggttact ttttttttcc tttttttaga cagtatcttg ctttgttgcc aagagtgaag 164460
agcagtagtg ctatcatggc ttactgcagc ctcaaactcc tgggctcaag caatcctccc 164520
atctcagcct cccaagtagc tgggactaca gctactgatt tttaaatttt ttgtagagat 164580
gggatctctc tattttgccc aggctagtct ccaactcctg ccttggcaat caggcaatcc 164640
tcctgccttg gcctcccaaa gtgctgggat tacaggtgtg agccaccatg cccagcccac 164700
ttagtttaa atactgctgt tatatgtcat ttcatccata gcttctaact ctgtacactc 164760
tctattgagg aaagctgggc ttttgtttc tgtacattct ccatgccacc tagcactggt 164820
aataacaata ttaatcacaa ttcacatttt tggagaacac tgttgagttt catgagccta 164880
tatcatttaa ttgccaggct tgttaggcag atattgtact gttatgtatc ttatacagaa 164940
tgaaacgggg tttagcaaga ataagtaata tcaccaggat cacatgatta gcaagtgttg 165000
ggcctgggca atcagactcc agagcttaga ctgaaccact gcactgtctt tttcctgata 165060
accaggcaat aggcttcact tcttagcctc aaagatgaat ggaggcttgg catatcagaa 165120
tatttgcata tcccattttt taaaaataga ggcagggcgt cgctgtcacc caggctggaa 165180
tgtagtggca caatcatggc tcacagcagc ctcatcctcc tgggctcaaa tgattctccc 165240
atctcagccc cccaagtagc tgggactaca ggtgcgcacc accacgcccg gctgttttt 165300
tttttaatt tttttaaatt tttagtagag acaaggtctg tctaaattcc ccaggctgat 165360
ctcaaattcc tgagctcaaa cgatccaccc accttggcat cccaaagtgc tgggattata 165420
ggagtaagcc actgcgccca gcctatacct cacattttca tttaaatttg taatcattct 165480
agatcttgcc atcataaatt tgaattatgg actgctgata cttttctaga atattcagat 165540
atttaatcta attattctga ggactactga tttataatgt tgagatataa aggtttgtta 165600
tagtaattta catttagaat atttgcaatg gaaaactgtg tttgattact tctggttcta 165660
aaaagtattt tttataggaa gaggaattgc caccaatctt gttatagtta actatactat 165720
gacttctttg gtcttggtaa aataaaatca attgcaataa aagttatgtg atttttttg 165780
gagtcttcat tttctatcct ttttctcttt gcagattctt tttaggcata ataaacaagt 165840
agttctaata gaccaatttt aaagcacaat gcaaaaattt attcttttag gaagtacagc 165900
ataccttaga gatatcgaga gttcagttcc aggttccaga ccaccacaaa aaagcaaata 165960
tttaggtaaa gcgaatatca caataaagag ttacgaatgc tgacacagag acacgaagtg 166020
agcacatgct gtgggaaaaa tctcactgat agatgttcga cacagggttg ccacaaatct 166080
gcaatttgta aaaacccata atatctgcaa cgtgcaataa agtgaagcat gataaaatga 166140
ggtatgcctg caaaccaaat tgttagcatt ccctaaatac atcaccctct atttctctgt 166200
gtctttacca cacacctaag tccttttcct ataggatctt accccaccc tatctctggt 166260
accctccctg tgcttgctga attcctcctt atcctactta ccttctgtgg ctctcctaat 166320
atcacttcct gggcgacatc tttcaagacc cttgcaggag aagttagtgt ttctctaatg 166380
atttcatggc actttgtcca aatctgtacc aaagtactta tttcattgta ctacaattac 166440
ttgtttatat cttcctctgt cattgtggac tacttgagag gggctatatc ttttccactg 166500
tcacaatatc atatgtgctc aggaagtgag ggaagcagtg agcgagaaac atccacatga 166560
agggcattga agggtaatga gaggtgatga gataggaaac ctggggaaat gcctaaatta 166620
gcattttgct ttttgccatg tacacagtat tctacctgga gaaaaagcag tgaaggagt 166680
aaggttatgg ttagcccaat tagaattgag gaagaaattc atatatggtt tactatattt 166740
tttgaatatt ccatgttgaa tgtatttata ttgctttgaa agatgattcc tttccttgct 166800
gaaaatatct catgtgatat tttaaataca ttctgtgtgg actttaggca taccctgaga 166860
ctctcccaaa acctttgaca taaaatatat tttctatgaa gaaagttagt gaattgtatg 166920
aaaagttatc atccattgga attattactg gcaaatgaaa tgctattctg cggtaaaaga 166980
ttttttttca tttcaaagta ttgtatattt cacataatag acaaattttg atagcaagat 167040
cacattttag aaggctgtca tcttctaata attgtgttaa tacctgccat attgtcttag 167100
tttgtttaag aggctaaaac aggataccac agactgcgtg gcttaaacaa cagaaatgta 167160
```

```
tttctcgtag tcctggaggc tgggacgtcc aagttcaacg tgtcagcaga ttcagtgtct 167220
agtgagggtc cacttcctgg ttcatagaca gccatcttct cactgtgtct tcacatggtg 167280
gaaggggtga agaagctctc tgaggtctcc tctaccataa ggacattatg tcattcgtga 167340
ggactctacc ttcatggtct aatcacctcc caaaggccct acttccaaat accatcacac 167400
tggggattag gcttcctcgt ctgaattttg aaagacacaa acattcagac tctagcagat 167460
attgacgtta tttatttccc ctgggtttct agattatcaa agcctgatgt atggtggggg 167520
gagttactca gatcatctca gtacagcttg ccatattttt aaattaagga ggtaatttta 167580
gaacatgggt gcctgtaatc ccagctactc tggaggctga ggcaggagaa tcgcctgaac 167640
ccgggaggca catgttgcag tgagccgaga ttgcgccatt gcactacagc ctgggcaaca 167700
agagtgaaac tctgcctcaa aaaaaaataa taataataaa taaaataaca tatgaaaaac 167760
tctgctgagg taagaaaagg taatgacttt tccttaattt aaaaataatc agctcttcat 167820
ctcccccttа aggggctgct tggagggtat ttgtgtttgg gaaaaatcag aactttcaaa 167880
ccttcttttа gtgaaccaga gttgtgagag taattacatg aaagtatgga ggtagacatc 167940
ttgagtaaag ggttttgtac ctctagcaag tttaggtgaa gtgggccttg aatgaacgtg 168000
tgatttctaa agcttgagaa gtcattgata acattctgta aacagacttt ggagtagcag 168060
agcattattt taatagctaa aggtctatcg ctcctgcact caacgataca attctgagtg 168120
ggcccgtgtc ctaatatcac aactactcta ggctatagag caactttgaa agttctagaa 168180
cttttgaact ttcacatttg aaccacagaa tggctctctc tcattttttcc cttacttttc 168240
tctgctgttt gaatcagggg tcagtcgagt cttttctataa agggccagat agcaaattag 168300
gctttgcggc catctggtct ccgtctaagc tgctcagccc tactattgca gtgcgaaagc 168360
agccatagac gatatgtaaa tgaatggcat ggctgtgtgt cactatcagt ttctttataa 168420
aaacgggcag ccatcttgaa gtcatatagc ttgctgacta gtggtttaga agagctagaa 168480
agaaattctg ggctgaggtg tttcgggttt ttatgtttat ttatttcaca tatataaacg 168540
tgggcatggg gaaatctgtg atccagggaa atgttctttt tcttcctctg ggtgctggtt 168600
atacaggaat tttaactttg ctaaacttca acaagcttac aatgatcatt tgtgcatttt 168660
tgtatatata tgctatattt taatttaaaa atctatttta aaacgttttt tccagttttt 168720
ttctttttct tttaaaaaat gtcttaatag tgttctagct ttctgcttcc aaacatttct 168780
agaggaccat aaccatatgc aaagttcttt tcttttcttt tttttttttt ttagaattcc 168840
atttagacat tttattcctt gaagcatgta aaagtacgta aacaccccaa aaggttatat 168900
cagaagtcaa agcattgtga tctctctgga tgcttttcag acatcgtggg tgagcgttct 168960
gaatcccctg tccccactgc cccggccagc tttgcctgga gagctactga gattttctac 169020
catctagtct tgggatgctg aagcctcaag aggttaggaa tgaatgcaat tctcacccac 169080
ctggcaatgt tggtatgcaa gctttggttg gtatgagacc acctcatcct attgaagttc 169140
ttttcttgtc tttcaccatg gaatcattta cttgggaatt gaacaatgag aacacatgga 169200
cacaggaagg ggaacatcac acactgggga ctgttgtggg gtggggggag aggggaggga 169260
tagcattagg agatatacct aatgctaaat gacgagttaa tgggtgcagc acaccaacat 169320
ggcacatgta tacatatgta acaaacctgc acattgtgca catgtaccct aaaacttaaa 169380
gtataataat aataataaaa taaaataaaa taaaaaaaaa gaagtgacat gcacctgtac 169440
tcctagctgc ttgggaggct tgaggactcc tttagcaaag ttcttttcta gacatagttt 169500
tatttcagct ttggataagc ctgttttatt tctttgctta tttggaccctg ggctgagttt 169560
tgaactcccc cacaaaactt tccatgttat ccatgaaaag acgcatcata ctccagagac 169620
cagccttctt tctggctgtc acatttcacc agaagtttca caactgccca aattcccacc 169680
cactcttgga aagtctgtca catgtttttac tcttttacga cttcgtgtga acatgtaaat 169740
gccaagccaa gcaagaaccc tgctacccgc cccttctttc aagcaaaaaa caaaaacaaa 169800
acaaaacaaa acacagggtg tgaaaacccg tgttctagtt tttgaggaat ttcaaagtgg 169860
ccagtgggat ggagtatgga attttagaag aaaatgactc atcagaattt tatttcgaga 169920
agaagaaaga agcttttctc aatgccctgc atcaggcgca gtcctgagat tgttcaccat 169980
ttttaccttc ttcaatttga gtccaagagc ttttttaaaaa tatacgtcag ctagcagagc 170040
agattttgtg cacttttttcc aattatgctg ttaataattt tagaatttgg aatggaagat 170100
tttagtgctt ccgtttttagt caccttgaag aaaacaaagc agcgtgtatc aaaattctaa 170160
gaagtatgca catcattttat ttccaaaatt aattcctagg aattcatccc aggaaattag 170220
ggaattgttc aaaaatgtat gtgggggtgat agccatcgaa aattgttcat gcgatggctc 170280
acgcttgtaa tcccagcact ttgggagcct gaggcgggca gatcacctga ggtcaagaag 170340
tttgagacca tcctggccaa catggtgaaa ctctgtctct actaaaaata cgaaaattag 170400
ctgggtgtga tggtggggtgc ctgtagcctc agctactcgg gaggctgagg cagaagaatt 170460
gcttgaaccc aggaggtgga gaggcagagg ttgcagtgag ctgagattgt gccactgcac 170520
tctagcctgg gcgacagagt gagactctgt ttcaaaaata aataaacaaa caaataaaaa 170580
taaaaaagat ttctcagata taaataagta agaaataaca taaacatcca ataattgtgg 170640
cttatttcaa tacattaggg cccattcttc tatgggatga ctgtagcagc cactcatgag 170700
```

```
tagtgcacct ctatgtctat tcatggggaa tatgtggatg ctgcatttcc tctccagtca  170760
ggactcagat ttcaagtaac tccaaaccca aatcaaaggg atttaatcaa aatagattct  170820
ttcatgcaaa tgaa                                                     170834
```

<210> 8
<211> 11
<212> PRT
<213> Mus musculus

<220>
<221> VARIANT
<222> 1
<223> Xaa=Met or Val

<400> 8
Xaa Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly
 1   5   10

<210> 9
<211> 11
<212> PRT
<213> Mus musculus

<400> 9
Gly Met Gly Ile Pro Pro Pro Pro Pro Leu Pro
 1   5   10

<210> 10
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 10
Gly Met Gly Ile Pro Pro Pro Pro Pro Leu Pro Gly Val Gly Ile Pro
 1   5   10   15
Pro Pro Pro Pro Leu Pro
            20

<210> 11
<211> 9
<212> PRT
<213> Mus musculus

<400> 11
Ile Pro Pro Pro Pro Pro Leu Pro Gly
 1   5

<210> 12
<211> 24
<212> DNA

<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 12
ggctaggaag cagccgatcg agcc   24

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 13
acccgctcgg agaagttggg   20

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 14
gtctgcagag gctgtcaatc c   21

<210> 15
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 15
ttctggaaag agggacggca gcc   23

<210> 16
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 16
cagcatttct ggtccctgta gattgc   26

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

```
<400> 17
gaggtaaaag aaatcatggg                                              20

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 18
cttgaaaata ttaagtgaag c                                            21

<210> 19
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 19
gtgcctgagc atcctccgtc ctcagg                                       26

<210> 20
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 20
gaaagccatc agctgtcgct ggagcc                                       26

<210> 21
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 21
ttttcctctg aacctcttg                                               19

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> based on Mus musculus

<400> 22
aacgaataca tcatcctcac                                              20
```